

**INSTALLATION RESTORATION
PROGRAM (IRP) SITE
INVESTIGATION FOR IRP SITE No. 1**

**VOLUME II
APPENDICES A-H**

**101st AIR CONTROL SQUADRON
MASSACHUSETTS AIR NATIONAL GUARD
WORCESTER AIR NATIONAL GUARD STATION
WORCESTER, MASSACHUSETTS**

JANUARY 1995



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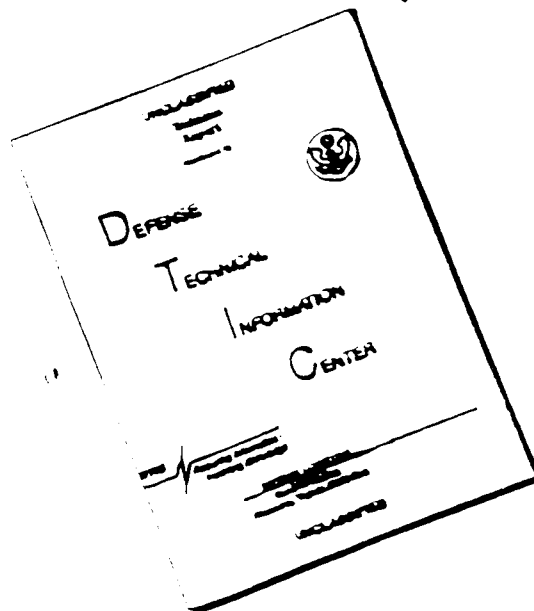
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Prepared For
**AIR NATIONAL GUARD READINESS CENTER
ANDREWS AFB, MARYLAND**

| REPORT DOCUMENTATION PAGE | | | |
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| 4. TITLE AND SUBTITLE Installation Restoration Program(IRP) Site Investigation for IRP Site No. 1 Vol I, and Vol II Appendices A-H 101st ACS, Worcester ANG | | 5. FUNDING NUMBERS | |
| 6. AUTHOR(S) OPTEC | | | |
| 7. PERFORMING ORGANIZATION NAMES(S) AND ADDRESS(ES) Operational Technologies Corporation 4100 N.W. Loop 410, Suite 230 San antonio, Texas 78229-4253 | | 8. REPORTING ORGANIZATION REPORT NUMBER | |
| 9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) ANGRC/CEVR 3500 Fetchet Avenue Andrews AFB, MD 20331 | | 10. SPONSORING / MONITORING AGENCY REPORT NUMBER | |
| 11. SUPPLEMENTARY NOTES | | | |
| 12a. DISTRIBUTION / AVAILABILITY STATEMENT Approved for public release; distribution is unlimited | | 12b. DISTRIBUTION CODE | |
| 13. ABSTRACT (<i>Maximum 200 words</i>) A Site Investigation (SI) was conducted at the Old Embankment/Vicinity of the old Waste Holding Area at Installation Restoration Program (IRP) Site No. 1 located at the 101st Air Control Squadron (ACS) and the 212th Engineering Installation Squadron (EIS), Massachusetts Air National Guard (MASS ANG), Worcester, MA. Volatile Organic Compounds (VOC) concentrations detected did not exceed Massachusetts Soil Standards and PCBs were not detected. However, semivolatile organic compound, metals, and petroleum hydrocarbons were detected above reportable concentrations. Additional background sampling and a Remedial Investigation / Feasibility Study (RI/FS) were recommended to determine the nature and extent of contamination. | | | |
| 14. SUBJECT TERMS IRP (Installation Restoration Program), CEVR, 101st ACS, Worcester ANG, Massachusetts, ANGR (Air National Guard Readiness Center), SI(Site Investigation Report) | | 15. NUMBER OF PAGES 88 + 432 = 520 | |
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INSTALLATION RESTORATION PROGRAM IRP SITE INVESTIGATION FOR IRP SITE No. 1

VOLUME II APPENDICES A-H

**101st AIR CONTROL SQUADRON
MASSACHUSETTS AIR NATIONAL GUARD
WORCESTER AIR NATIONAL GUARD STATION
WORCESTER, MASSACHUSETTS**

JANUARY 1995

Prepared For

**AIR NATIONAL GUARD READINESS CENTER
ANDREWS AFB, MARYLAND**

Prepared By

**Operational Technologies Corporation
4100 N.W. Loop 410, Suite 230
San Antonio, Texas 78229-4253
(210) 731-0000**

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| Dist | Avail and/or Special |
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APPENDIX A
BORING LOGS

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KEY TO BORING LOG SYMBOLS

| UNIFIED SOIL CLASSIFICATION SYSTEM - ASTM D2487 | | | | | |
|--|---|---------------------------------------|--------------------|--------------|---|
| MAJOR DIVISIONS | | | SYMBOL/ GRAPHIC | DESCRIPTIONS | |
| COARSE-GRAINED SOILS (>50% Smaller Than #200 Sieve) | GRAVELS | Clean gravels with little or no fines | GW | | Well-Graded Gravels, Gravel - Sand Mixtures |
| | | | GP | | Poorly Graded Gravels, Gravels - Sand Mixtures |
| | (More than 50% of coarse fraction is larger than the #4 sieve size.) | Gravels with over 12% fines | GM | | Silty Gravels, Poorly Graded Gravel-Sand-Clay Mixtures |
| | | | GC | | Clayey Gravels, Poorly Graded Gravel-Sand-Clay Mixtures |
| | SANDS | Clean sands with little or no fines | SW | | Well-Graded Sands, Gravelly Sands |
| | | | SP | | Poorly Graded Sands, Gravelly Sands |
| | (More than 50% of coarse fraction is smaller than the #4 sieve size.) | Sands with over 12% fines | SM | | Silty Sands, Poorly Graded Sand-Silt Mixtures |
| | | | SC | | Clayey Sands, Poorly Graded Sand-Clay Mixtures |
| FINE-GRAINED SOILS (>50% Smaller Than #200 Sieve) | SILTS AND CLAYS (Liquid limit less than 50) | | ML | | Inorganic Silts and Very Fine Sands, Silty or Clayey Fine Sands |
| | | | CL | | Inorganic Clays of Low to Medium Plasticity: Gravelly, Sandy or Silty Clays; Lean Clays |
| | | | OL | | Organic Clays and Organic Silty Clays of Low Plasticity |
| | SILTS AND CLAYS (Liquid limit greater than 50) | | MH | | Inorganic Silts, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silts |
| | | | CH | | Inorganic Clays of High Plasticity Fat Clays |
| | | | OH | | Organic Clays of Medium to High Plasticity, Organic Silts |
| HIGHLY ORGANIC SOILS | | | Pt | | Peat and Other Highly Organic Soils |



Sample retained for on-site screening.

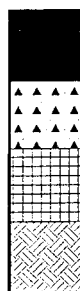


Sample prepared for laboratory analysis.



Water Table Level

PID Photo-Ionization Detector readings (ppm)



Asphaltic Concrete

Portland Cement Concrete

Cement Grout

Boulders or Bedrock

DRAFT
FIGURE A.1

F:\FORMS\KEYLOG2

KEY TO BORING LOG
101st Air Control Squadron
Worcester Air National Guard Station
Worcester, Massachusetts

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C O R P O R A T I O N

1994


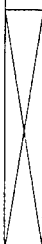



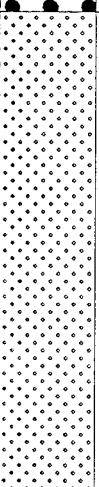
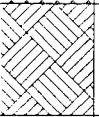

Worcester Air National Guard Station

Worcester, Massachusetts

O P T E C H**OPERATIONAL TECHNOLOGIES
CORPORATION****LOG OF BORING 01-006BH**

Project No.: 1315-113
 Logged By: Earl Parker
 Drilling Co.: Technical Drilling Services
 Driller: Pete Newsham
 Date Drilled: 11/17/93
 Drilling Method: Hollow Stem Auger

Sampling Method: California Style Sampler
 Depth Drilled: 7.75 ft.
 Depth To Water: Not Encountered
 Date Measured: NA
 Surface Elevation: 764.3 ft.

| Depth (ft.) | Blows/6" | % Recovery | Samples | Graphic | DESCRIPTION OF MATERIALS | FIELD SCREENING | | | |
|----------------|----------|------------|---|---|---|-----------------|---------------|---------------|------------------|
| | | | | | | PID (ppm) | ATHA (ppm) | BTEX (ppb) | Benzene (ppb) |
| | | | |  | Asphalt at surface. | | | | |
| 28 31 39 | | 0 |  |  | Fill, well graded, coarse sand, silt, dark brown, angular boulder and gravel, little clay, moist. | - | - | - | - |
| | | | |  | Gravel interval. | | | | |
| 4 16 21 | | 65 |  |  | Fill, well graded, coarse sand, silt, dark brown, angular boulder and gravel, little clay, moist. | 1.9 | 2.2 | 6.69 | 6.69 |
| 5 | | | |  | Sand, medium to fine, dark brown, angular gravel and cobbles, wet. | 8.0 | - | - | - |
| 8 16 50 | | 70 |  | | | | | | |
| | | | | | Boring Terminated at 7.75 ft. | | | | |

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| | |
|------------------|-----------------------------|
| Project No.: | 1315-113 |
| Logged By: | Earl Parker |
| Drilling Co.: | Technical Drilling Services |
| Driller: | Pete Newsham |
| Date Drilled: | 11/16/93 |
| Drilling Method: | Hollow Stem Auger |

| | |
|---------------------------|---------------------------------|
| Sampling Method: | California Style Sampler |
| Depth Drilled: | 2.0 ft. |
| Depth To Water: | Not Encountered |
| Date Measured: | NA |
| Surface Elevation: | 763.8 ft. |

| Depth (ft.) | Blows/6" | % Recovery | Samples | Graphic | DESCRIPTION OF MATERIALS | FIELD SCREENING | | | |
|----------------|----------|------------|---------|---------|--|-----------------|---------------|---------------|------------------|
| | | | | | | PID (ppm) | ATHA (ppm) | BTEX (ppb) | Benzene (ppb) |
| | | | | | Asphalt at surface. | | | | |
| 19 20 15 | | 80 | | | Fill, well graded, medium to coarse sand, mostly brown, trace silt (5%), trace clay. | 0.5 | 1.6 | ND | ND |
| | | | | | Boring Terminated at 2.0 ft. | | | | |

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| | | | |
|------------------|-----------------------------|--------------------|--------------------------|
| Project No.: | 1315-113 | Sampling Method: | California Style Sampler |
| Logged By: | Earl Parker | Depth Drilled: | 3.0 ft. |
| Drilling Co.: | Technical Drilling Services | Depth To Water: | Not Encountered |
| Driller: | Pete Newsham | Date Measured: | NA |
| Date Drilled: | 11/16/93 | Surface Elevation: | 770.0 ft. |
| Drilling Method: | Hollow Stem Auger | | |

[illegible]

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O P T E C H**OPERATIONAL TECHNOLOGIES
CORPORATION****LOG OF BORING 01-003BH**

Project No.: 1315-113
 Logged By: Earl Parker
 Drilling Co.: Technical Drilling Services
 Driller: Pete Newsham
 Date Drilled: 11/16/93
 Drilling Method: Hollow Stem Auger

Sampling Method: California Style Sampler
 Depth Drilled: 7.75 ft.
 Depth To Water: Not Encountered
 Date Measured: NA
 Surface Elevation: 765.0 ft.

| Depth (ft.) | Blows/6" | % Recovery | Samples | Graphic | DESCRIPTION OF MATERIALS | FIELD SCREENING | | | |
|-------------------------------|----------|------------|---------|---------|--|-----------------|---------------|---------------|------------------|
| | | | | | | PID (ppm) | ATHA (ppm) | BTEX (ppb) | Benzene (ppb) |
| | | | | | Asphalt at surface. | | | | |
| 8 10 12 | | 80 | | | Well graded fill, brown sand, some fine sand with silt (10%). Some clay particles. | 62.7 | 5.5 | ND | ND |
| 18 24 20 | | 70 | | | Poorly sorted fill, medium to coarse sand, and angular gravel. Some large angular rocks. Trace silt (10%). | 4.2 | - | 14.57 | ND |
| 28 31 43 | | 0 | | | | 2.3 | - | - | - |
| 5 | | | | | | | | | |
| 4 50 NA | | 60 | | | Medium sand with fines and silt, brown to light brown, slightly moist, few gravel. | 17.5 | - | - | - |
| Boring Terminated at 7.75 ft. | | | | | | | | | |

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O P T E C H**OPERATIONAL TECHNOLOGIES
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Project No.: 1315-113
 Logged By: Earl Parker
 Drilling Co.: Technical Drilling Services
 Driller: Pete Newsham
 Date Drilled: 11/17/93
 Drilling Method: Hollow Stem Auger

Sampling Method: California Style Sampler
 Depth Drilled: 6.0 ft.
 Depth To Water: Not Encountered
 Date Measured: NA
 Surface Elevation: 768.0 ft.

| Depth (ft.) | Blows/6" | % Recovery | Samples | Graphic | DESCRIPTION OF MATERIALS | FIELD SCREENING | | | |
|----------------|--------------|------------|---------|---------|---|-----------------|---------------|---------------|------------------|
| | | | | | | PID (ppm) | ATHA (ppm) | BTEX (ppb) | Benzene (ppb) |
| | | | | | Asphalt at surface. | | | | |
| 16 27 20 | | 75 | | | Fill, well graded, medium to fine sand gravel particles, trace silt, slightly cohesive, moist. | 3.1 | 1.6 | ND | ND |
| 5 | 5 8 50 | 70 | | | Fill, well graded, medium to fine sand, brown, cohesive, some angular gravels and cobbles, moist. | 1.3 | 1.3 | ND | ND |
| | | | | | Boring Terminated at 6.0 ft. | | | | |

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LOG OF BORING 01-005BH

| | | | |
|-------------------------|------------------------------------|---------------------------|---------------------------------|
| Project No.: | 1315-113 | Sampling Method: | California Style Sampler |
| Logged By: | Earl Parker | Depth Drilled: | 7.5 ft. |
| Drilling Co.: | Technical Drilling Services | Depth To Water: | Not Encountered |
| Driller: | Pete Newsham | Date Measured: | NA |
| Date Drilled: | 11/17/93 | Surface Elevation: | 765.9 ft. |
| Drilling Method: | Hollow Stem Auger | | |

| Depth (ft.) | Blows/6" | % Recovery | Samples | Graphic | DESCRIPTION OF MATERIALS | FIELD SCREENING | | | |
|---------------|----------|------------|---------|---------|---|-----------------|---------------|---------------|------------------|
| | | | | | | PID (ppm) | ATHA (ppm) | BTEX (ppb) | Benzene (ppb) |
| | | | | | Asphalt at surface. | | | | |
| 7 14 17 | | 75 | | | Fill, well graded, coarse to medium sand, light brown, with some fine sand, silt, and gravel. | 2.3 | 1.4 | ND | ND |
| 5 | | | | | | | | | |
| 3 4 50 | | 75 | | | Sand and silt, brown, angular gravel, granite, and clay, moist. | 1.7 | 2.7 | 17.03 | 17.03 |
| | | | | | Boring Terminated at 7.50 ft. | | | | |

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| Project No.: | 1315-113 | Sampling Method: | Hand Auger |
| Logged By: | Earl Parker | Depth Drilled: | 2.0 ft. |
| Drilling Co.: | Operational Technologies, Inc. | Depth To Water: | Not Encountered |
| Driller: | Joe Byrd | Date Measured: | NA |
| Date Drilled: | 11/18/93 | Surface Elevation: | 756.3 ft. |
| Drilling Method: | Hand Auger | | |

| Depth (ft.) | Blows/6" | % Recovery | Samples | Graphic | DESCRIPTION OF MATERIALS | FIELD SCREENING | | | |
|-------------|----------|------------|---------|---------|--|-----------------|---------------|---------------|------------------|
| | | | | | | PID (ppm) | ATHA (ppm) | BTEX (ppb) | Benzene (ppb) |
| NA | 100 | | | | Gravel slope at surface | | | | |
| | | | | | Sand, well graded, silt, clay, and gravels. | 0.5 | 0.3 | ND | ND |
| | | | | | Sand, medium to coarse, gravels with trace silt. | | | | |
| | | | | | Boring Terminated at 2.0 ft. | | | | |

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| Project No.: | 1315-113 |
| Logged By: | Earl Parker |
| Drilling Co.: | Operational Technologies, Inc. |
| Driller: | Joe Byrd |
| Date Drilled: | 11/17/93 |
| Drilling Method: | Hand Auger |

| | |
|--------------------|------------|
| Sampling Method: | Hand Auger |
| Depth Drilled: | 1.0 ft. |
| Depth To Water: | 0.5 ft. |
| Date Measured: | 11/17/93 |
| Surface Elevation: | 758.7 ft. |

| Depth (ft.) | Blows/6" | % Recovery | Samples | Graphic | DESCRIPTION OF MATERIALS | FIELD SCREENING | | | |
|---|----------|------------|---------|---------|---|-----------------|---------------|---------------|------------------|
| | | | | | | PID (ppm) | ATHA (ppm) | BTEX (ppb) | Benzene (ppb) |
| <div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background: linear-gradient(to bottom, transparent 49%, black 49% 51%, black 51% 53%, transparent 53%); background-size: 4px 4px;"></div> </div> | NA | 100 | | | Soil at surface. | 1.1 | - | - | - |
| | | | | | Sand, well graded, highly organic sand, gravel, sand, silt, water at 0.5 ft. BLS. | | | | |
| 5 | | | | | Boring Terminated at 1.0 ft. | | | | |

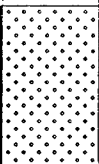
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O P T E C H**OPERATIONAL TECHNOLOGIES
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Project No.: 1315-113
 Logged By: Earl Parker
 Drilling Co.: Operational Technologies, Inc.
 Driller: Joe Byrd
 Date Drilled: 11/18/93
 Drilling Method: Hand Auger

Sampling Method: Hand Auger
 Depth Drilled: 1.0 ft.
 Depth To Water: Not Encountered
 Date Measured: NA
 Surface Elevation: 757.1 ft.

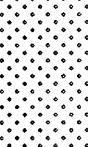
| Depth (ft.) | Blows/6" | % Recovery | Samples | Graphic | DESCRIPTION OF MATERIALS | FIELD SCREENING | | | |
|-------------|----------|------------|---------|---|--|-----------------|---------------|---------------|------------------|
| | | | | | | PID (ppm) | ATHA (ppm) | BTEX (ppb) | Benzene (ppb) |
| 5 | NA | 100 | |  | Soil at surface. | 0.2 | - | 25.15 | 6.53 |
| | | | | | Sand and silt, well graded, medium organic sand with trace clay, water at 0.5 ft. BLS. | | | | |
| | | | | | Boring Terminated at 1.0 ft. | | | | |

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| Project No.: | 1315-113 |
| Logged By: | Earl Parker |
| Drilling Co.: | Operational Technologies, Inc. |
| Driller: | Joe Byrd |
| Date Drilled: | 11/17/93 |
| Drilling Method: | Hand Auger |

| | |
|--------------------|-----------------|
| Sampling Method: | Hand Auger |
| Depth Drilled: | 1.0 ft. |
| Depth To Water: | Not Encountered |
| Date Measured: | NA |
| Surface Elevation: | 755.5 ft. |

| Depth (ft.) | Blows/6" | % Recovery | Samples | Graphic | DESCRIPTION OF MATERIALS | FIELD SCREENING | | | |
|--|----------|------------|---------|---|---|-----------------|---------------|---------------|------------------|
| | | | | | | PID (ppm) | ATHA (ppm) | BTEX (ppb) | Benzene (ppb) |
| <div style="text-align: center;">5</div> | NA | 100 | |  | Soil at surface. | 1.5 | 1.3 | ND | ND |
| | | | | | Sand, well graded medium to fine, brown with silt and clay, organic rich, moist to wet. | | | | |
| | | | | | Boring Terminated at 1.0 ft. | | | | |

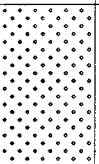
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O P T E C H**OPERATIONAL TECHNOLOGIES
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Project No.: 1315-113
 Logged By: Earl Parker
 Drilling Co.: Operational Technologies, Inc.
 Driller: Joe Byrd
 Date Drilled: 11/18/93
 Drilling Method: Hand Auger

Sampling Method: Hand Auger
 Depth Drilled: 1.0 ft.
 Depth To Water: Not Encountered
 Date Measured: NA
 Surface Elevation: 762.9 ft.

| Depth (ft.) | Blows/6" | % Recovery | Samples | Graphic | DESCRIPTION OF MATERIALS | FIELD SCREENING | | | |
|-------------|----------|------------|---------|---|--|-----------------|---------------|---------------|------------------|
| | | | | | | PID (ppm) | ATHA (ppm) | BTEX (ppb) | Benzene (ppb) |
| 5 | NA | 100 | |  | Gravel slope at surface. | 0.8 | 2.8 | 20.0 | ND |
| | | | | | Sand, well graded medium to fine, silt and clay. | | | | |
| | | | | | Boring Terminated at 1.0 ft. | | | | |

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CORPORATION****LOG OF BORING 01-012BH**

Project No.: 1315-113
 Logged By: Earl Parker
 Drilling Co.: Technical Drilling Services
 Driller: Pete Newsham
 Date Drilled: 11/16/93
 Drilling Method: Hollow Stem Auger

Sampling Method: California Style Sampler
 Depth Drilled: 7.0 ft.
 Depth To Water: Not Encountered
 Date Measured: NA
 Surface Elevation: 768.1 ft.

| Depth (ft.) | Blows/6" | % Recovery | Samples | Graphic | DESCRIPTION OF MATERIALS | FIELD SCREENING | | | |
|----------------|----------|------------|---------|---------|---|-----------------|---------------|---------------|------------------|
| | | | | | | PID (ppm) | ATHA (ppm) | BTEX (ppb) | Benzene (ppb) |
| | | | | | Asphalt. | | | | |
| 24 28 41 | | 75 | | | Fill, well graded, medium to fine sand and silt, clay, gray to gray brown. | 3.5 | - | ND | ND |
| 29 27 42 | | 60 | | | Coarse to fine sand. Mostly fine with some silt. | - | - | ND | ND |
| 5 | | | | | | | | | |
| 12 10 17 | | 70 | | | Fill, medium to fine sand, few angular to rounded gravel, coarse sand with black staining, light petroleum odor, moist. | 5.7 | 47.3 | 77.74 | ND |
| | | | | | Boring Terminated at 7.0 ft. | | | | |

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OPERATIONAL TECHNOLOGIES CORPORATION

| | | | |
|------------------|--------------------------------|--------------------|-----------------|
| Project No.: | 1315-113 | Sampling Method: | Hand Auger |
| Logged By: | Earl Parker | Depth Drilled: | 1.5 ft. |
| Drilling Co.: | Operational Technologies, Inc. | Depth To Water: | Not Encountered |
| Driller: | Joe Byrd | Date Measured: | NA |
| Date Drilled: | 11/17/93 | Surface Elevation: | 766.9 ft. |
| Drilling Method: | Hand Auger | | |


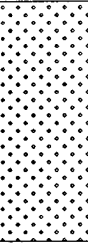
| Depth (ft.) | Blows/6" | % Recovery | Samples | Graphic | DESCRIPTION OF MATERIALS | FIELD SCREENING | | | |
|-------------|----------|------------|---------|---------|--|-----------------|---------------|---------------|------------------|
| | | | | | | PID (ppm) | ATHA (ppm) | BTEX (ppb) | Benzene (ppb) |
| | NA | 100 | | | Soil at surface. | | | | |
| | | | | | Sand, well graded coarse, gravel, some clay and cobbles. | 2.1 | 1.8 | ND | ND |
| | | | | | Boring Terminated at 1.5 ft. ✓ | | | | |

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|------------------|--------------------------------|
| Project No.: | 1315-113 |
| Logged By: | Earl Parker |
| Drilling Co.: | Operational Technologies, Inc. |
| Driller: | Joe Byrd |
| Date Drilled: | 11/17/93 |
| Drilling Method: | Hand Auger |


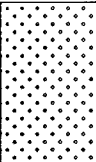
| | |
|--------------------|-----------------|
| Sampling Method: | Hand Auger |
| Depth Drilled: | 1.5 ft. |
| Depth To Water: | Not Encountered |
| Date Measured: | NA |
| Surface Elevation: | 764.2 ft. |

| Depth (ft.) | Blows/6" | % Recovery | Samples | Graphic | DESCRIPTION OF MATERIALS | FIELD SCREENING | | | |
|-------------|----------|------------|---|---|---|-----------------|---------------|---------------|------------------|
| | | | | | | PID (ppm) | ATHA (ppm) | BTEX (ppb) | Benzene (ppb) |
| | NA | 100 |  |  | Soil at surface. Sand, well grinded coarse, some gravel and cobbles, light brown, some silt. | 1.5 | 1.8 | ND | ND |
| 5 | | | | | Boring Terminated at 1.5 ft. | | | | |

Worcester, Massachusetts

**OPERATIONAL TECHNOLOGIES
CORPORATION**

| | | | |
|-------------------------|--------------------------------|---------------------------|-----------------|
| Project No.: | 1315-113 | Sampling Method: | Hand Auger |
| Logged By: | Earl Parker | Depth Drilled: | 1.0 ft. |
| Drilling Co.: | Operational Technologies, Inc. | Depth To Water: | Not Encountered |
| Driller: | Joe Byrd | Date Measured: | NA |
| Date Drilled: | 11/18/93 | Surface Elevation: | 768.9 ft. |
| Drilling Method: | Hand Auger | | |

| Depth (ft.) | Blows/6" | % Recovery | Samples | Graphic | DESCRIPTION OF MATERIALS | FIELD SCREENING | | | |
|-------------|----------|------------|---|---|--|-----------------|---------------|---------------|------------------|
| | | | | | | PID (ppm) | ATHA (ppm) | BTEX (ppb) | Benzene (ppb) |
| 5 | NA | 100 |  |  | Soil at surface. | 1.5 | 1.0 | 23.1 | ND |
| | | | | | Sand, well grinded, some silt, gravel fill material. | | | | |
| | | | | | Boring Terminated at 1.0 ft. | | | | |

APPENDIX B

FIELD GC SCREENING RESULTS

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Table B.1
Field GC Screening Results – Soil
Worcester Air National Guard Station, Worcester, Massachusetts

| Drilling Locations/Intervals | Sample Weight (gr) | Field GC Data | | | | Total BTEX (ppb) |
|--|--------------------------|------------------|------------------|-----------------------|-------------------|------------------------|
| | | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | O-Xylene (ppb) | |
| <u>01-001BH</u> 0.5 – 2.0 | 10 | ND | ND | ND | ND | ND |
| <u>01-002BH</u> 05 – 2.0 | 10 | ND | ND | ND | ND | ND |
| <u>01-003BH</u> 0.5 – 1.5 2.0 – 3.5 | 10 10 | ND ND | ND 14.57 | ND ND | ND ND | ND 14.57 |
| <u>01-004BH</u> 0.5 – 1.5 5.0 – 6.5 | 10 10 | ND ND | ND ND | ND ND | ND ND | ND ND |
| <u>01-005BH</u> 0.5 – 2.0 6.0 – 7.6 | 10 10 | ND 17.03 | ND ND | ND ND | ND ND | ND 17.03 |
| <u>01-006BH</u> 4.0 – 5.5 | 10 | 6.69 | ND | ND | ND | 6.69 |
| <u>01-007BH</u> 0.0 – 1.0 1.0 – 2.0 | 10 10 | ND ND | ND ND | ND ND | ND ND | ND ND |
| <u>01-009BH</u> 0.5 – 1.0 | 10 | 6.53 | 18.62 | ND | ND | 25.15 |
| <u>01-010BH</u> 0.0 – 1.0 | 10 | ND | ND | ND | ND | ND |
| <u>01-011BH</u> 0.0 – 1.0 | 10 | ND | 20.0 | ND | ND | 20.0 |
| <u>01-012BH</u> 2.0 – 2.7 0.5 – 1.5 5.5 – 7.0 | 10 10 10 | ND ND ND | ND ND ND | ND ND 39.88 | ND ND 37.86 | ND ND 77.74 |
| <u>01-013BH</u> 0.5 – 1.5 | 10 | ND | ND | ND | ND | ND |
| <u>01-014BH</u> 0.5 – 1.5 | 10 | ND | ND | ND | ND | ND |
| <u>01-015BH</u> 0.0 – 1.0 | 10 | ND | 23.1 | ND | ND | 23.1 |

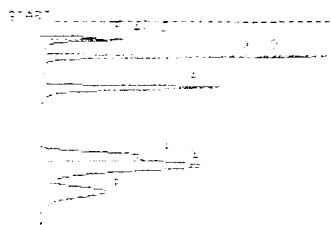
No soil sample analyzed at 01-008BH due to insufficient recovery.

gr – grams.

ppb – parts per billion.

ND – Not Detected.

PHOTOVAC



STOP # 500.0
 SAMPLE LIBRARY 1 NOV 16 1993 18:40
 ANALYSIS # 3 JERRY ARRIAGA
 INTERNAL TEMP 17 WORCESTER
 GAIN 2 1 PPM BTX

| COMPOUND NAME | PEAK | R.T. | AREA/PPM |
|---------------|------|-------|-----------|
| UNKNOWN | 1 | 24.9 | 460.5 mUS |
| UNKNOWN | 2 | 26.2 | 281.2 mUS |
| UNKNOWN | 3 | 53.2 | 4.0 US |
| UNKNOWN | 4 | 102.4 | 4.3 US |
| UNKNOWN | 5 | 210.0 | 3.8 US |
| UNKNOWN | 6 | 224.4 | 5.7 US |
| UNKNOWN | 7 | 265.4 | 4.3 US |

PHOTOVAC

| 1 | COMPOUND | ID # | R.T. | LIMIT |
|---|--------------|------|-------|-----------|
| | BENZENE | 1 | 53.2 | 1.000 PPM |
| | TOLUENE | 2 | 102.4 | 1.000 PPM |
| | ETHYLBENZENE | 3 | 210.0 | 1.000 PPM |
| | m-P XYLENE | 4 | 224.4 | 1.000 PPM |
| | p-XYLENE | 5 | 265.4 | 1.000 PPM |

PHOTOVAC

START

STOP # 500.0
 SAMPLE LIBRARY 1 NOV 16 1993 18:55
 ANALYSIS # 4 JERRY ARRIAGA
 INTERNAL TEMP 17 WORCESTER
 GAIN 2 01-0018H 0.5-2.0

| COMPOUND NAME | PEAK | R.T. | AREA/PPM |
|---------------|------|------|----------|
| UNKNOWN | 1 | 24.2 | 2.7 US |
| UNKNOWN | 2 | 27.3 | 2.5 US |

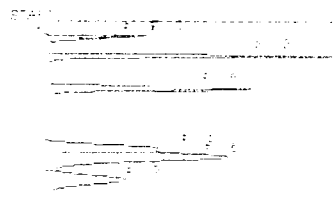
PHOTOVAC

START

STOP # 500.0
 SAMPLE LIBRARY 1 NOV 16 1993 21:20
 ANALYSIS # 5 JERRY ARRIAGA
 INTERNAL TEMP 24 WORCESTER
 GAIN 2 01-0028H 0.5-2.0

| COMPOUND NAME | PEAK | R.T. | AREA/PPM |
|---------------|------|------|-----------|
| UNKNOWN | 1 | 24.9 | 307.4 mUS |
| UNKNOWN | 2 | 27.1 | 281.6 mUS |

PHOTOVAC

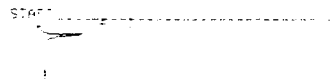


STOP # 500.0
 SAMPLE LIBRARY 1 NOV 8 1993 21:42
 ANALYSIS # 7 JERRY ARRIAGA
 INTERNAL TEMP 25 WORCESTER
 GAIN 2 1.0 PPM STANDARD

COMPOUND NAME PEAK R.T. AREA/PPM

| | | | | |
|--------------|---|-------|--------|-----|
| UNKNOWN | 1 | 20.7 | 872.5 | µUS |
| UNKNOWN | 2 | 26.9 | 5421.9 | µUS |
| BENZENE | 3 | 30.5 | 1.310 | PPM |
| TOLUENE | 4 | 102.4 | 1.106 | PPM |
| ETHYLBENZENE | 5 | 193.7 | 1.023 | PPM |
| ETHYLBENZENE | 6 | 203.4 | 2.502 | PPM |
| CH-ATLENE | 7 | 245.1 | 1.102 | PPM |

PHOTOVAC

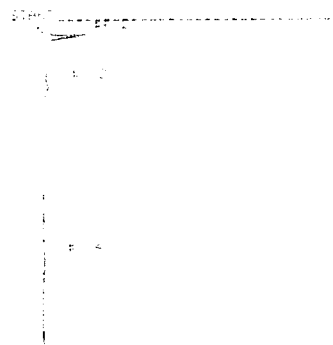


STOP # 500.0
 SAMPLE LIBRARY 1 NOV 8 1993 22:00
 ANALYSIS # 8 JERRY ARRIAGA
 INTERNAL TEMP 25 WORCESTER
 GAIN 2 AIR BLANK

COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOWN 21.9 1810.0 µUS

PHOTOVAC

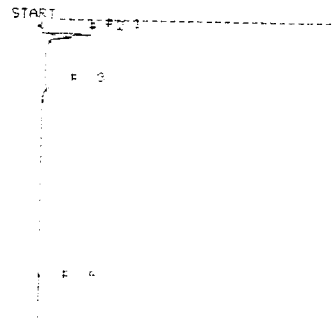


STOP # 500.0
 SAMPLE LIBRARY 1 NOV 8 1993 21:32
 ANALYSIS # 8 JERRY ARRIAGA
 INTERNAL TEMP 25 WORCESTER
 GAIN 2 01-003BH 0.5-1.5

COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOWN 1 23.4 195.1 µUS

PHOTOVAC



STOP # 500.0
 SAMPLE LIBRARY 1 NOV 16 1993 22:22
 ANALYSIS # 9 JERRY ARRIAGA
 INTERNAL TEMP 26 WORCESTER
 GAIN 2 01-003BH 2.0-3.5

COMPOUND NAME PEAK R.T. AREA/PPM

| | | | | |
|---------|---|-------|-------|-----|
| UNKNOWN | 1 | 24.9 | 284.0 | µUS |
| TOLUENE | 3 | 111.4 | 14.59 | PPM |
| UNKNOWN | 4 | 116.8 | 60.0 | µUS |

PHOTOVAC

START

STOP @ 500.0
 SAMPLE LIBRARY 1 NOV 16 1993 22:49
 ANALYSIS # 11 JERRY ARRIAGA
 INTERNAL TEMP 26 WORCESTER
 GAIN 2 01-0128H 0.5-1.5

COMPOUND NAME PEAK R.T. AREA/PPM
 UNKNOWN 1 25.3 266.3 #US

PHOTOVAC

START

STOP @ 500.0
 SAMPLE LIBRARY 1 NOV 16 1993 23:06
 ANALYSIS # 13 JERRY ARRIAGA
 INTERNAL TEMP 26 WORCESTER
 GAIN 2 INTERVAL 3

COMPOUND NAME PEAK R.T. AREA/PPM
 UNKNOWN 1 24.6 232.0 #US
 TOLUENE 3 112.0 10.07 PPM
 UNKNOWN 4 416.6 36.1 #US

PHOTOVAC

START

STOP @ 500.0
 SAMPLE LIBRARY 1 NOV 16 1993 22:23
 ANALYSIS # 10 JERRY ARRIAGA
 INTERNAL TEMP 26 WORCESTER
 GAIN 2 01-0128H 2.0-2.2

COMPOUND NAME PEAK R.T. AREA/PPM
 UNKNOWN 1 27.1 391.7 #US

PHOTOVAC

START

STOP @ 500.0
 SAMPLE LIBRARY 1 NOV 18 1993 11:11
 ANALYSIS # 10 JERRY ARRIAGA
 INTERNAL TEMP 25 WORCESTER
 GAIN 2 01-0128H 5.5-2.0

COMPOUND NAME PEAK R.T. AREA/PPM
 ETHYLBENZENE 2 276.0 36.80 PPM
 CHLORENE 4 324.0 21.6 PPM
 UNKNOWN 6 413.5 231.1 #US

PHOTOVAC

START

STOP



STOP 500.0
SAMPLE LIBRARY 1 NOV 17 1993 22:40
ANALYSIS # 1 JERRY ARRIAGA
INTERNAL TEMP 22 WORCESTER
GAIN 2 1.0 PPM STANDARD

| COMPOUND NAME | PEAK | R.T. | AREA/PPM |
|---------------|------|-------|----------|
| UNKNOWN | 1 | 63.5 | 8.0 US |
| UNKNOWN | 2 | 126.0 | 4.3 US |
| UNKNOWN | 3 | 254.9 | 4.3 US |
| UNKNOWN | 4 | 273.8 | 3.5 US |
| UNKNOWN | 5 | 323.2 | 4.3 US |

PHOTOVAC

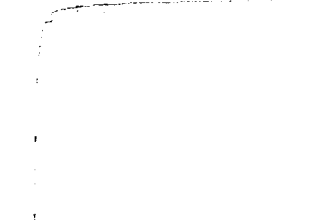
1 COMPOUND ID # R.T. LIMIT

| | | | |
|--------------|---|-------|-----------|
| BENZENE | 1 | 63.5 | 1.000 PPM |
| TOLUENE | 2 | 126.0 | 1.000 PPM |
| ETHYLBENZENE | 3 | 254.9 | 1.000 PPM |
| m-P XYLENE | 4 | 273.8 | 1.000 PPM |
| O-XYLENE | 5 | 323.2 | 1.000 PPM |

PHOTOVAC

START

STOP



STOP 500.0
SAMPLE LIBRARY 1 NOV 17 1993 22:52
ANALYSIS # 3 JERRY ARRIAGA
INTERNAL TEMP 24 WORCESTER
GAIN 2 AIR BLANK

| COMPOUND NAME | PEAK | R.T. | AREA/PPM |
|---------------|------|------|-----------|
| UNKNOWN | 1 | 28.3 | 5.1 US |
| UNKNOWN | 2 | 30.0 | 5.2 US |
| BENZENE | 3 | 63.5 | 1.000 PPM |

PHOTOVAC

START

STOP



STOP 500.0
SAMPLE LIBRARY 1 NOV 16 1993 2:27
ANALYSIS # 7 JERRY ARRIAGA
INTERNAL TEMP 25 WORCESTER
GAIN 2 01-004Bh INT 1

| COMPOUND NAME | PEAK | R.T. | AREA/PPM |
|---------------|------|------|-----------|
| UNKNOWN | 1 | 27.2 | 154.2 #US |

PHOTOVAC

START

STOP



STOP 500.0
SAMPLE LIBRARY 1 NOV 16 1993 2:16
ANALYSIS # 6 JERRY ARRIAGA
INTERNAL TEMP 25 WORCESTER
GAIN 2 01-004Bh 0.5-1.5

| COMPOUND NAME | PEAK | R.T. | AREA/PPM |
|---------------|------|------|-----------|
| UNKNOWN | 1 | 28.3 | 175.0 #US |

PHOTOVAC

START

STOP

22:40

STOP 6 400.0
 SAMPLE LIBRARY 1 NOV 16 1993 22:40
 ANALYSIS # 2 JERRY ARRIAGA
 INTERNAL TEMP 24 WORCESTER
 GAIN 2 1.0000 STANDARD

COMPOUND NAME PEAK R.T. AREA/PPM

| | | | | |
|---------|---|-------|-------|-----|
| UNKNOWN | 1 | 24.6 | 344.0 | 1.0 |
| UNKNOWN | 2 | 28.3 | 270.3 | 1.0 |
| UNKNOWN | 3 | 69.1 | 2.0 | 0.0 |
| UNKNOWN | 4 | 134.6 | 1.0 | 0.0 |
| UNKNOWN | 5 | 270.3 | 1.0 | 0.0 |
| UNKNOWN | 6 | 340.0 | 1.0 | 0.0 |
| UNKNOWN | 7 | 340.0 | 1.0 | 0.0 |

PHOTOVAC

1 COMPOUND IC # R.T. LIMIT

| | | | | |
|--------------|---|-------|-------|-----|
| BENZENE | 1 | 69.1 | 1.000 | PPM |
| TOLUENE | 2 | 134.6 | 1.000 | PPM |
| ETHYLBENZENE | 3 | 270.3 | 1.000 | PPM |
| M-P XYLENE | 4 | 340.0 | 1.000 | PPM |
| O-XYLENE | 5 | 340.0 | 1.000 | PPM |

PHOTOVAC

START

STOP

STOP 6 500.0
 SAMPLE LIBRARY 1 NOV 16 1993 22:40
 ANALYSIS # 3 JERRY ARRIAGA
 INTERNAL TEMP 24 WORCESTER
 GAIN 2 01-0070H 0.0-1.0

COMPOUND NAME PEAK R.T. AREA/PPM

PHOTOVAC

START

STOP

STOP 6 500.0
 SAMPLE LIBRARY 1 NOV 16 1993 22:40
 ANALYSIS # 4 JERRY ARRIAGA
 INTERNAL TEMP 24 WORCESTER
 GAIN 2 01-0070H 1.0-2.0

COMPOUND NAME PEAK R.T. AREA/PPM

PHOTOVAC

START

STOP # 500.0
SAMPLE LIBRARY 1 NOV 16 1993 0:36
ANALYSIS # 6 JERRY ARRIAGA
INTERNAL TEMP 25 WORCESTER
GAIN 2 01-005BH INT 1

| COMPOUND NAME | PEAK | R.T. | AREA/PPM |
|---------------|------|------|-----------|
| UNKNOWN | 1 | 27.1 | 205.3 #US |

PHOTOVAC

START

STOP # 500.0
SAMPLE LIBRARY 1 NOV 16 1993 0:36
ANALYSIS # 5 JERRY ARRIAGA
INTERNAL TEMP 25 WORCESTER
GAIN 2 01-025BH INT 2

| COMPOUND NAME | PEAK | R.T. | AREA/PPM |
|---------------|------|------|-----------|
| UNKNOWN | 1 | 26.0 | 1.9 US |
| UNKNOWN | 3 | 42.5 | 252.1 #US |
| BENZENE | 4 | 65.3 | 6.686 PPE |

PHOTOVAC

START

STOP # 500.0
SAMPLE LIBRARY 1 NOV 17 1993 23:56
ANALYSIS # 4 JERRY ARRIAGA
INTERNAL TEMP 24 WORCESTER
GAIN 2 01-006BH 4.0-5.5

| COMPOUND NAME | PEAK | R.T. | AREA/PPM |
|---------------|------|------|-----------|
| UNKNOWN | 1 | 26.0 | 1.9 US |
| UNKNOWN | 3 | 42.5 | 252.1 #US |
| BENZENE | 4 | 65.3 | 6.686 PPE |

PHOTOVAC

START

STOP # 500.0
SAMPLE LIBRARY 1 NOV 18 1993 1:43
ANALYSIS # 9 JERRY ARRIAGA
INTERNAL TEMP 25 WORCESTER
GAIN 2 01-0105H INT 1

COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOWN 1 16.8 204.6 #US
UNKNOWN 2 29.2 81.8 #US

PHOTOVAC

START

STOP # 500.0
SAMPLE LIBRARY 1 NOV 18 1993 1:12
ANALYSIS # 11 JERRY ARRIAGA
INTERNAL TEMP 25 WORCESTER
GAIN 2 01-0138H 0.5-1.5

COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOWN 1 22.6 145.3 #US

PHOTOVAC

START

STOP # 500.0
SAMPLE LIBRARY 1 NOV 18 1993 0:52
ANALYSIS # 9 JERRY ARRIAGA
INTERNAL TEMP 25 WORCESTER
GAIN 2 01-0105H INT 1

COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOWN 1 21.0 145.3 #US

PHOTOVAC

START

STOP # 500.0
SAMPLE LIBRARY 1 NOV 18 1993 1:23
ANALYSIS # 12 JERRY ARRIAGA
INTERNAL TEMP 25 WORCESTER
GAIN 2 01-0105H 0.5-1.5

COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOWN 2 40.0 226.0 #US

PHOTOCAP

START TIME: 11/18/93 23:26
END TIME: 11/18/93 23:26

STOP # 500.0
SAMPLE LIBRARY 1 NOV 18 1993 23:26
ANALYSIS # 6 JERRY ARRIAGA
INTERNAL TEMP 25 WORCESTER
GAIN 20 2:-0150H 0.0-1.0

COMPOUND NAME PEAK R.T. AREA/PPM

| | | | | |
|---------|---|-------|-------|-----|
| UNKNOWN | 1 | 23.4 | 1.8 | MP |
| UNKNOWN | 2 | 23.0 | 504.0 | PPM |
| TOLUENE | 6 | 107.6 | 20.19 | PPM |

APPENDIX C

**CHEMICAL ANALYSES RESULTS FOR QUALITY
ASSURANCE/QUALITY CONTROL SAMPLE**

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395
DEP Certification MA #082
(508) 753-3738

Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7315 REVET Account No.: E2014
Client Sample: 01-015 BH, DUP Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/18/93 Date Received: 11/18/93
Matrix: Soil Date Run: 11/24/93
Method: 8240 Dilution Factor: 1.1

Analyst:

A. WOLF

Date:

12-14-93

QC Check:

J. Paquin

Date:

12/14/93

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 11 | R | ND |
| 74-83-9 | Bromomethane | 11 | E | ND |
| 75-01-4 | Vinyl Chloride | 11 | V | ND |
| 75-00-3 | Chloroethane | 11 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 11 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 11 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 11 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 11 | R | ND |
| 591-78-6 | 2-Hexanone | 11 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

=====

REVET Sample No.: 7315

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 11 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 11 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture- 12.3

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 93 | 70-121 |
| Toluene-d8 | 104 | 84-138 |
| 4-Bromofluorobenzene | 100 | 59-113 |

Notes:

=====

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395
DEP Certification MA #082
(508) 753-3738

Page 1 of 2

=====

| | |
|-------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7317 | REVEt Account No.: E2014 |
| Client Sample: 01-011 BH, DUP | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/18/93 | Date Received: 11/18/93 |
| Matrix: Soil | Date Run: 11/24/93 |
| Method: 8240 | Dilution Factor: 1.2 |

Analyst:

A. Wolf
A.WOLF

Date: 12-14-93

QC Check:

J. Paquin

Date: 12/14/93

EPA Method

RESULTS**

Detection Limits

for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 12 | R | ND |
| 74-83-9 | Bromomethane | 12 | E | ND |
| 75-01-4 | Vinyl Chloride | 12 | V | ND |
| 75-00-3 | Chloroethane | 12 | E | ND |
| 75-09-2 | Methylene chloride | 6 | T | ND |
| 67-64-1 | Acetone | 12 | | ND |
| 75-15-0 | Carbon disulfide | 6 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 6 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 6 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 6 | I | ND |
| 67-66-3 | Chloroform | 6 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 6 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 12 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 6 | M | ND |
| 56-23-5 | Carbon tetrachloride | 6 | E | ND |
| 75-27-4 | Bromodichloromethane | 6 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 6 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 6 | A | ND |
| 79-01-6 | Trichloroethylene | 6 | L | ND |
| 124-48-1 | Dibromochloromethane | 6 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 6 | L | ND |
| 71-43-2 | Benzene | 6 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 6 | B | ND |
| 75-25-2 | Bromoform | 12 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 12 | R | ND |
| 591-78-6 | 2-Hexanone | 12 | A | ND |
| 127-18-4 | Tetrachloroethylene | 6 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6 | O | ND |
| 108-88-3 | Toluene | 6 | R | ND |
| 108-90-7 | Chlorobenzene | 6 | Y | ND |
| 100-41-4 | Ethylbenzene | 6 | | ND |

REVEL Sample No.: 7317

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 6 | ND |
| 1330-20-7 | Total xylenes | 6 | ND |
| 108-05-4 | Vinyl Acetate | 6 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 12 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 12 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 20.4

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 98 | 70-121 |
| Toluene-d8 | 112 | 84-138 |
| 4-Bromofluorobenzene | 96 | 59-113 |

Notes:

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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DEP Certification MA #082
(508) 753-3738

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| | |
|-------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7320 | REVE Account No.: E2014 |
| Client Sample: 01-007 BH, DUP | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/18/93 | Date Received: 11/18/93 |
| Matrix: Soil | Date Run: 11/24/93 |
| Method: 8240 | Dilution Factor: 1 |

Analyst: A. Wolf Date: 12-14-93

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS**
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

REVEI Sample No.: 7320

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 106-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture- 11.2

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 94 | 70-121 |
| Toluene-d8 | 106 | 84-138 |
| 4-Bromofluorobenzene | 101 | 59-113 |

Notes:

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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: BLANK.2014 REVET Account No.: E2014
Client Sample: LABBLK 11/24 Client Location/P.O.:
Date Sampled: Date Received:
Matrix: Soil Date Run: 11/24/93
Method: 8240 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93
A.WOLF

QC Check: J. Paguir Date: 12/14/93

EPA Method RESULTS**
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

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REVET Sample No.: BLANK.2014

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture-

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 99 | 70-121 |
| Toluene-d8 | 97 | 84-138 |
| 4-Bromofluorobenzene | 101 | 59-113 |

Notes:

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| | |
|--------------------------------|--------------------------|
| Client: OPTTECH | Contact: JOHN MORRIS |
| Revet Sample No.: BLANK.2014.1 | REVEt Account No.: E2014 |
| Client Sample: LABBLK 11/26 | Client Location/P.O.: |
| Date Sampled: | Date Received: |
| Matrix: Soil | Date Run: 11/26/93 |
| Method: 8240 | Dilution Factor: 1 |

Analyst: A. Wolf Date: 12-14-93

QC Check: J. Piquin Date: 12/14/93

EPA Method RESULTS**
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

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| | | |
|--------------------------------|----------------------------|-----------|
| REVET Sample No.: BLANK.2014.1 | EPA Method | RESULTS** |
| | Detection Limits | |
| | for this sample* | |
| CAS Number | Compound | ug/kg |
| 100-42-5 | Styrene | 5 |
| 1330-20-7 | Total xylenes | 5 |
| 108-05-4 | Vinyl Acetate | 5 |
| 541-73-1 | 1,3-Dichlorobenzene | 10 |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture-

| | | |
|-----------------------|----------------------|-------------|
| | | Acceptable |
| Compound | Surrogate % Recovery | Soil Limits |
| 1,2-Dichloroethane-d4 | 98 | 70-121 |
| Toluene-d8 | 103 | 84-138 |
| 4-Bromofluorobenzene | 95 | 59-113 |

Notes:

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REVE ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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DEP Certification Number 082
Telephone (508) 753-3738

VOLATILE ORGANIC COMPOUNDS
QC SUMMARY SHEET

Sample ID: 7319 MS/MSD

Analysis Date: 11/26/93

| Compound | Spike Added ug/Kg | Sample Concen. ug/Kg | MS Concen. ug/Kg | MS % REC. | QC Limits REC. |
|--------------------|-------------------------|----------------------------|------------------------|-----------------|----------------------|
| 1,1-Dichloroethene | 50 | 0 | 47 | 94 | 59-172 |
| Trichloroethylene | 50 | 0 | 48 | 96 | 62-137 |
| Benzene | 50 | 0 | 54 | 108 | 66-142 |
| Toluene | 50 | 0 | 55 | 110 | 59-139 |
| Chlorobenzene | 50 | 0 | 49 | 98 | 60-133 |

| Compound | Spike Added ug/Kg | MSD Concen. ug/Kg | MSD % REC | % RPD | QC RPD | Limits REC. |
|--------------------|-------------------------|-------------------------|-----------------|----------|-----------|----------------|
| 1,1-Dichloroethene | 49 | 50 | 102 | 6 | 22 | 59-172 |
| Trichloroethylene | 49 | 46 | 94 | 4 | 24 | 62-137 |
| Benzene | 49 | 50 | 102 | 8 | 21 | 66-142 |
| Toluene | 49 | 50 | 102 | 10 | 21 | 59-139 |
| Chlorobenzene | 49 | 48 | 98 | 2 | 21 | 60-133 |

Comments: _____

Note: This form follows the EPA Contract Laboratory Program format. Matrix Spike must be analyzed for ten percent of all samples submitted to DEP/DWS to fulfill the monitoring requirements of the Pesticide and Volatile Organic Compound Sampling Programs.

J. Paganini for
A Wolf, Analyst

12/14/93
Date

c:vocqc

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| | |
|-----------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7322 | REVE Account No.: E2014 |
| Client Sample: EQUIPMENT BLANK #3 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/18/93 | Date Received: 11/18/93 |
| Matrix: Water | Date Run: 11/23/93 |
| Method: 624 | Dilution Factor: 1 |

Analyst: *A. Wolf* Date: 12-14-93
A:WOLF

QC Check: *J. Paquin* Date: 12/14/93

EPA Method RESULTS
Detection Limits
for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|----------------------------|------|---|------|
| 74-87-3 | Chloromethane | 2 | R | ND |
| 74-83-9 | Bromomethane | 2 | E | ND |
| 75-01-4 | Vinyl Chloride | 2 | V | ND |
| 75-00-3 | Chloroethane | 2 | E | ND |
| 75-09-2 | Methylene chloride | 1 | T | ND |
| 67-64-1 | Acetone | 2 | | ND |
| 75-15-0 | Carbon disulfide | 1 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 1 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 1 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 1 | I | ND |
| 67-66-3 | Chloroform | 1 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 1 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 2 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | M | ND |
| 56-23-5 | Carbon tetrachloride | 1 | E | ND |
| 75-27-4 | Bromodichloromethane | 1 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 1 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | A | ND |
| 79-01-6 | Trichloroethylene | 1 | L | ND |
| 124-48-1 | Dibromochloromethane | 1 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | L | ND |
| 71-43-2 | Benzene | 1 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | B | ND |
| 75-25-2 | Bromoform | 2 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 2 | R | ND |
| 591-78-6 | 2-Hexanone | 2 | A | ND |
| 127-18-4 | Tetrachloroethylene | 1 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | O | ND |
| 108-88-3 | Toluene | 1 | R | ND |
| 108-90-7 | Chlorobenzene | 1 | Y | ND |
| 100-41-4 | Ethylbenzene | 1 | | ND |

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REVET Sample No.: 7322

EPA Method
Detection Limits
for this sample*

RESULTS

| CAS Number | Compound | ug/L | ug/L |
|------------|----------------------------|------|------|
| 100-42-5 | Styrene | 1 | ND |
| 1330-20-7 | Total xylenes | 1 | ND |
| 108-05-4 | Vinyl Acetate | 1 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 2 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 2 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

| Compound | Surrogate % Recovery | Acceptable Water Limits |
|-----------------------|----------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 109 | 76-114 |
| Toluene-d8 | 105 | 88-110 |
| 4-Bromofluorobenzene | 97 | 86-115 |

Notes:

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| | |
|-------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7323 | REVE Account No.: E2014 |
| Client Sample: FIELD BLANK #3 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/18/93 | Date Received: 11/18/93 |
| Matrix: Water | Date Run: 11/26/93 |
| Method: 624 | Dilution Factor: 1 |

Analyst: A. Wolf Date: 12-14-93
A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS
Detection Limits
for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|----------------------------|------|---|------|
| 74-87-3 | Chloromethane | 2 | R | ND |
| 74-83-9 | Bromomethane | 2 | E | ND |
| 75-01-4 | Vinyl Chloride | 2 | V | ND |
| 75-00-3 | Chloroethane | 2 | E | ND |
| 75-09-2 | Methylene chloride | 1 | T | ND |
| 67-64-1 | Acetone | 2 | | ND |
| 75-15-0 | Carbon disulfide | 1 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 1 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 1 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 1 | I | ND |
| 67-66-3 | Chloroform | 1 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 1 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 2 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | M | ND |
| 56-23-5 | Carbon tetrachloride | 1 | E | ND |
| 75-27-4 | Bromodichloromethane | 1 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 1 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | A | ND |
| 79-01-6 | Trichloroethylene | 1 | L | ND |
| 124-48-1 | Dibromochloromethane | 1 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | L | ND |
| 71-43-2 | Benzene | 1 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | B | ND |
| 75-25-2 | Bromoform | 2 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 2 | R | ND |
| 591-78-6 | 2-Hexanone | 2 | A | ND |
| 127-18-4 | Tetrachloroethylene | 1 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | O | ND |
| 108-88-3 | Toluene | 1 | R | ND |
| 108-90-7 | Chlorobenzene | 1 | Y | ND |
| 100-41-4 | Ethylbenzene | 1 | | ND |

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REVET Sample No.: 7323

EPA Method
Detection Limits
for this sample*

RESULTS

| CAS Number | Compound | ug/L | ug/L |
|------------|----------------------------|------|------|
| 100-42-5 | Styrene | 1 | ND |
| 1330-20-7 | Total xylenes | 1 | ND |
| 108-05-4 | Vinyl Acetate | 1 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 2 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 2 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

| Compound | Surrogate % Recovery | Acceptable Water Limits |
|-----------------------|----------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 101 | 76-114 |
| Toluene-d8 | 103 | 88-110 |
| 4-Bromofluorobenzene | 90 | 86-115 |

Notes:

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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7324 REVET Account No.: E2014
Client Sample: TRIP BLANK D Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/18/93 Date Received: 11/18/93
Matrix: Water Date Run: 11/26/93
Method: 624 Dilution Factor: 1

Analyst: A. WOLF Date: 12-14-93

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS
Detection Limits
for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|----------------------------|------|---|------|
| 74-87-3 | Chloromethane | 2 | R | ND |
| 74-83-9 | Bromomethane | 2 | E | ND |
| 75-01-4 | Vinyl Chloride | 2 | V | ND |
| 75-00-3 | Chloroethane | 2 | E | ND |
| 75-09-2 | Methylene chloride | 1 | T | ND |
| 67-64-1 | Acetone | 2 | | ND |
| 75-15-0 | Carbon disulfide | 1 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 1 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 1 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 1 | I | ND |
| 67-66-3 | Chloroform | 1 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 1 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 2 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | M | ND |
| 56-23-5 | Carbon tetrachloride | 1 | E | ND |
| 75-27-4 | Bromodichloromethane | 1 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 1 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | A | ND |
| 79-01-6 | Trichloroethylene | 1 | L | ND |
| 124-48-1 | Dibromochloromethane | 1 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | L | ND |
| 71-43-2 | Benzene | 1 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | B | ND |
| 75-25-2 | Bromoform | 2 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 2 | R | ND |
| 591-78-6 | 2-Hexanone | 2 | A | ND |
| 127-18-4 | Tetrachloroethylene | 1 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | O | ND |
| 108-88-3 | Toluene | 1 | R | ND |
| 108-90-7 | Chlorobenzene | 1 | Y | ND |
| 100-41-4 | Ethylbenzene | 1 | | ND |

REVEI Sample No.: 731.

EPA Method
Detection Limits
for this sample*

RESULTS

| CAS Number | Compound | ug/L | ug/L |
|------------|----------------------------|------|------|
| 100-42-5 | Styrene | 1 | ND |
| 1330-20-7 | Total xylenes | 1 | ND |
| 108-05-4 | Vinyl Acetate | 1 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 2 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 2 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

| Compound | Surrogate % Recovery | Acceptable Water Limits |
|-----------------------|----------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 92 | 76-114 |
| Toluene-d8 | 101 | 88-110 |
| 4-Bromofluorobenzene | 87 | 86-115 |

Notes:

REJET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395

DEP Certification MA #082

(508) 753-3738

Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: BLANK.2014.2 REVET Account No.: E2014
Client Sample: LABBLK 11/23 Client Location/P.O.:
Date Sampled: Date Received:
Matrix: Water Date Run: 11/23/93
Method: 624 Dilution Factor: 1

Analyst: T. Wolf Date: 12-14-93
A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS
Detection Limits
for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|----------------------------|------|---|------|
| 74-87-3 | Chloromethane | 2 | R | ND |
| 74-83-9 | Bromomethane | 2 | E | ND |
| 75-01-4 | Vinyl Chloride | 2 | V | ND |
| 75-00-3 | Chloroethane | 2 | E | ND |
| 75-09-2 | Methylene chloride | 1 | T | ND |
| 67-64-1 | Acetone | 2 | | ND |
| 75-15-0 | Carbon disulfide | 1 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 1 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 1 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 1 | I | ND |
| 67-66-3 | Chloroform | 1 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 1 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 2 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | M | ND |
| 56-23-5 | Carbon tetrachloride | 1 | E | ND |
| 75-27-4 | Bromodichloromethane | 1 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 1 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | A | ND |
| 79-01-6 | Trichloroethylene | 1 | L | ND |
| 124-48-1 | Dibromochloromethane | 1 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | L | ND |
| 71-43-2 | Benzene | 1 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | B | ND |
| 75-25-2 | Bromoform | 2 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 2 | R | ND |
| 591-78-6 | 2-Hexanone | 2 | A | ND |
| 127-18-4 | Tetrachloroethylene | 1 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | O | ND |
| 108-88-3 | Toluene | 1 | R | ND |
| 108-90-7 | Chlorobenzene | 1 | Y | ND |
| 100-41-4 | Ethylbenzene | 1 | | ND |

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REVET Sample No.: BLANK.2014.2

EPA Method
Detection Limits
for this sample*

RESULTS

| CAS Number | Compound | ug/L | ug/L |
|------------|----------------------------|------|------|
| 100-42-5 | Styrene | 1 | ND |
| 1330-20-7 | Total xylenes | 1 | ND |
| 108-05-4 | Vinyl Acetate | 1 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 2 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 2 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

| Compound | Surrogate % Recovery | Acceptable Water Limits |
|-----------------------|----------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 90 | 76-114 |
| Toluene-d8 | 88 | 88-110 |
| 4-Bromofluorobenzene | 104 | 86-115 |

Notes:

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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DEP Certification MA #082
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Page 1 of 2

Client: OPTECH
Revet Sample No.: BLANK.2014.3
Client Sample: LABBLK 11/26
Date Sampled:
Matrix: Water
Method: 624
Contact: JOHN MORRIS
REVE Account No.: E2014
Client Location/P.O.:
Date Received:
Date Run: 11/26/93
Dilution Factor: 1

Analyst: A. WOLF Date: 12-14-93

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS
Detection Limits
for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|----------------------------|------|---|------|
| 74-87-3 | Chloromethane | 2 | R | ND |
| 74-83-9 | Bromomethane | 2 | E | ND |
| 75-01-4 | Vinyl Chloride | 2 | V | ND |
| 75-00-3 | Chloroethane | 2 | E | ND |
| 75-09-2 | Methylene chloride | 1 | T | ND |
| 67-64-1 | Acetone | 2 | | ND |
| 75-15-0 | Carbon disulfide | 1 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 1 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 1 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 1 | I | ND |
| 67-66-3 | Chloroform | 1 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 1 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 2 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | M | ND |
| 56-23-5 | Carbon tetrachloride | 1 | E | ND |
| 75-27-4 | Bromodichloromethane | 1 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 1 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | A | ND |
| 79-01-6 | Trichloroethylene | 1 | L | ND |
| 124-48-1 | Dibromochloromethane | 1 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | L | ND |
| 71-43-2 | Benzene | 1 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | B | ND |
| 75-25-2 | Bromoform | 2 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 2 | R | ND |
| 591-78-6 | 2-Hexanone | 2 | A | ND |
| 127-18-4 | Tetrachloroethylene | 1 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | O | ND |
| 108-88-3 | Toluene | 1 | R | ND |
| 108-90-7 | Chlorobenzene | 1 | Y | ND |
| 100-41-4 | Ethylbenzene | 1 | | ND |

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REVET Sample No.: BLANK.2014.3

EPA Method

RESULTS

Detection Limits

for this sample*

| CAS Number | Compound | ug/L | ug/L |
|------------|----------------------------|------|------|
| 100-42-5 | Styrene | 1 | ND |
| 1330-20-7 | Total xylenes | 1 | ND |
| 108-05-4 | Vinyl Acetate | 1 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 2 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 2 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

| Compound | Surrogate % Recovery | Acceptable Water Limits |
|-----------------------|----------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 92 | 76-114 |
| Toluene-d8 | 92 | 88-110 |
| 4-Bromofluorobenzene | 92 | 86-115 |

Notes:

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.
 15 Belmont Street
 Worcester, MA 01605
 DEP Certification Number 082
 Telephone (508) 753-3738

VOLATILE ORGANIC COMPOUNDS
 QC SUMMARY SHEET

Sample ID: 7314 MS/MSD Analysis Date: 11/24/93

| Compound | Spike Added ug/l | Sample Concn. ug/l | MS Concn. ug/l | MS % REC. | QC Limits REC. |
|--------------------|---------------------|-----------------------|-------------------|--------------|-------------------|
| 1,1-Dichloroethene | 56 | 0 | 58 | 104 | 61-145 |
| Trichloroethylene | 56 | 0 | 56 | 100 | 71-120 |
| Benzene | 56 | 0 | 59 | 105 | 76-127 |
| Toluene | 56 | 0 | 58 | 104 | 76-125 |
| Chlorobenzene | 56 | 0 | 55 | 98 | 75-130 |

| Compound | Spike Added ug/l | MSD Concn. ug/l | MSD % REC | % RPD | QC RPD | Limits REC. |
|--------------------|---------------------|--------------------|--------------|----------|-----------|----------------|
| 1,1-Dichloroethene | 54 | 51 | 94 | 13 | 22 | 61-145 |
| Trichloroethylene | 54 | 54 | 100 | 4 | 24 | 71-120 |
| Benzene | 54 | 63 | 117 | 7 | 21 | 76-127 |
| Toluene | 54 | 71 | 131 | 20 | 21 | 76-125 |
| Chlorobenzene | 54 | 56 | 104 | 2 | 21 | 75-130 |

Comments: _____

Note: This form follows the EPA Contract Laboratory Program format. Matrix Spike must be analyzed for ten percent of all samples submitted to DEP/DWS to fulfill the monitoring requirements of the Pesticide and Volatile Organic Compound Sampling Programs.

A. Wolf
 A. Wolf, Analyst

12-14-93
 Date

c:vocqc

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

DEP Certification MA #082

(508) 460-7600

Page 1 of 2

Client: OPTECH
 Revet Sample No.: BLANK.2008
 Client Sample: LABBLK 11/19
 Date Sampled:
 Matrix: Soil
 Method: 8240
 Contact: JOHN MORRIS
 REVET Account No.: E2008
 Client Location/P.O.: WORCESTER ANG
 Date Received:
 Date Run: 11/19/93
 Dilution Factor: 1

Analyst: J. Requin for Date: 12/14/93
 A. WOLF

QC Check: E. Taylor Date: 12/14/93

EPA Method RESULTS**

Detection Limits

for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

REJET Sample No.: BLANK.2008

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture-

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 101 | 70-121 |
| Toluene-d8 | 105 | 84-138 |
| 4-Bromofluorobenzene | 105 | 59-113 |

Notes:

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395
DEP Certification MA #082
(508) 753-3738

Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: BLANK.2008.1 REVET Account No.: E2008
Client Sample: LABLK 11/23 Client Location/P.O.:
Date Sampled: Date Received:
Matrix: Soil Date Run: 11/23/93
Method: 8240 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93

QC Check: J. Paguir Date: 12/14/93

EPA Method RESULTS**
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

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REVET Sample No.: BLANK.2008.1

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture-

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 95 | 70-121 |
| Toluene-d8 | 100 | 84-138 |
| 4-Bromofluorobenzene | 99 | 59-113 |

Notes:

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395
DEP Certification MA #082
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Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: BLANK.2008.4 REVET Account No.: E2008
Client Sample: LABBLK 11/26 Client Location/P.O.:
Date Sampled: Date Received:
Matrix: Soil Date Run: 11/26/93
Method: 8240 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93
A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS**
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

REVE Sample No.: BLANK.2008.4

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture-

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 91 | 70-121 |
| Toluene-d8 | 95 | 84-138 |
| 4-Bromofluorobenzene | 86 | 59-113 |

Notes:

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395
DEP Certification MA #082
(508) 753-3738

Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7219 REVET Account No.: E2008
Client Sample: FIELD BLANK #1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/17/93 Date Received: 11/17/93
Matrix: Water Date Run: 11/26/93
Method: 624 Dilution Factor: 1

Analyst: A. WOLF Date: 12-14-93

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS
Detection Limits
for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|----------------------------|------|---|------|
| 74-87-3 | Chloromethane | 2 | R | ND |
| 74-83-9 | Bromomethane | 2 | E | ND |
| 75-01-4 | Vinyl Chloride | 2 | V | ND |
| 75-00-3 | Chloroethane | 2 | E | ND |
| 75-09-2 | Methylene chloride | 1 | T | ND |
| 67-64-1 | Acetone | 2 | | ND |
| 75-15-0 | Carbon disulfide | 1 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 1 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 1 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 1 | I | ND |
| 67-66-3 | Chloroform | 1 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 1 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 2 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | M | ND |
| 56-23-5 | Carbon tetrachloride | 1 | E | ND |
| 75-27-4 | Bromodichloromethane | 1 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 1 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | A | ND |
| 79-01-6 | Trichloroethylene | 1 | L | ND |
| 124-48-1 | Dibromochloromethane | 1 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | L | ND |
| 71-43-2 | Benzene | 1 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | B | ND |
| 75-25-2 | Bromoform | 2 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 2 | R | ND |
| 591-78-6 | 2-Hexanone | 2 | A | ND |
| 127-18-4 | Tetrachloroethylene | 1 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | O | ND |
| 108-88-3 | Toluene | 1 | R | ND |
| 108-90-7 | Chlorobenzene | 1 | Y | ND |
| 100-41-4 | Ethylbenzene | 1 | | ND |

REJET Sample No.: 7219

EPA Method
Detection Limits
for this sample*

RESULTS

| CAS Number | Compound | ug/L | ug/L |
|------------|----------------------------|------|------|
| 100-42-5 | Styrene | 1 | ND |
| 1330-20-7 | Total xylenes | 1 | ND |
| 108-05-4 | Vinyl Acetate | 1 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 2 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 2 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

| Compound | Surrogate % Recovery | Acceptable Water Limits |
|-----------------------|----------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 96 | 76-114 |
| Toluene-d8 | 103 | 88-110 |
| 4-Bromofluorobenzene | 96 | 86-115 |

Notes:

REVE ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

DEP Certification MA #082

(508) 460-7600

Page 1 of 2

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| | |
|-------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7220 | REVE Account No.: E2008 |
| Client Sample: FIELD BLANK #2 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/17/93 | Date Received: 11/17/93 |
| Matrix: Water | Date Run: 11/22/93 |
| Method: 624 | Dilution Factor: 1 |

Analyst: E. Paquin Jr Date: 12/14/93
A. WOLF

QC Check: E. Taylor Date: 12/14/93

EPA Method RESULTS
Detection Limits
for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|----------------------------|------|---|------|
| 74-87-3 | Chloromethane | 2 | R | ND |
| 74-83-9 | Bromomethane | 2 | E | ND |
| 75-01-4 | Vinyl Chloride | 2 | V | ND |
| 75-00-3 | Chloroethane | 2 | E | ND |
| 75-09-2 | Methylene chloride | 1 | T | ND |
| 67-64-1 | Acetone | 2 | | ND |
| 75-15-0 | Carbon disulfide | 1 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 1 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 1 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 1 | I | ND |
| 67-66-3 | Chloroform | 1 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 1 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 2 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | M | ND |
| 56-23-5 | Carbon tetrachloride | 1 | E | ND |
| 75-27-4 | Bromodichloromethane | 1 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 1 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | A | ND |
| 79-01-6 | Trichloroethylene | 1 | L | ND |
| 124-48-1 | Dibromochloromethane | 1 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | L | ND |
| 71-43-2 | Benzene | 1 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | B | ND |
| 75-25-2 | Bromoform | 2 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 2 | R | ND |
| 591-78-6 | 2-Hexanone | 2 | A | ND |
| 127-18-4 | Tetrachloroethylene | 1 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | O | ND |
| 108-88-3 | Toluene | 1 | R | ND |
| 108-90-7 | Chlorobenzene | 1 | Y | ND |
| 100-41-4 | Ethylbenzene | 1 | | ND |

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REVET Sample No.: 7220

EPA Method
Detection Limits
for this sample*

RESULTS

| CAS Number | Compound | ug/L | ug/L |
|------------|----------------------------|------|------|
| 100-42-5 | Styrene | 1 | ND |
| 1330-20-7 | Total xylenes | 1 | ND |
| 108-05-4 | Vinyl Acetate | 1 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 2 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 2 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

| Compound | Surrogate % Recovery | Acceptable Water Limits |
|-----------------------|----------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 90 | 76-114 |
| Toluene-d8 | 94 | 88-110 |
| 4-Bromofluorobenzene | 95 | 86-115 |

Notes:

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395
DEP Certification MA #082
(508) 753-3738

Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7221 REVET Account No.: E2008
Client Sample: EQUIPMENT BLANK #1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/17/93 Date Received: 11/17/93
Matrix: Water Date Run: 11/22/93
Method: 624 Dilution Factor: 1

Analyst: J. Wolf Date: 12-14-93
A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS
Detection Limits
for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|----------------------------|------|---|------|
| 74-87-3 | Chloromethane | 2 | R | ND |
| 74-83-9 | Bromomethane | 2 | E | ND |
| 75-01-4 | Vinyl Chloride | 2 | V | ND |
| 75-00-3 | Chloroethane | 2 | E | ND |
| 75-09-2 | Methylene chloride | 1 | T | ND |
| 67-64-1 | Acetone | 2 | | ND |
| 75-15-0 | Carbon disulfide | 1 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 1 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 1 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 1 | I | ND |
| 67-66-3 | Chloroform | 1 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 1 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 2 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | M | ND |
| 56-23-5 | Carbon tetrachloride | 1 | E | ND |
| 75-27-4 | Bromodichloromethane | 1 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 1 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | A | ND |
| 79-01-6 | Trichloroethylene | 1 | L | ND |
| 124-48-1 | Dibromochloromethane | 1 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | L | ND |
| 71-43-2 | Benzene | 1 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | B | ND |
| 75-25-2 | Bromoform | 2 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 2 | R | ND |
| 591-78-6 | 2-Hexanone | 2 | A | ND |
| 127-18-4 | Tetrachloroethylene | 1 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | O | ND |
| 108-88-3 | Toluene | 1 | R | ND |
| 108-90-7 | Chlorobenzene | 1 | Y | ND |
| 100-41-4 | Ethylbenzene | 1 | | ND |

REJET Sample No.: 7221

EPA Method
Detection Limits
for this sample*

RESULTS

| CAS Number | Compound | ug/L | ug/L |
|------------|----------------------------|------|------|
| 100-42-5 | Styrene | 1 | ND |
| 1330-20-7 | Total xylenes | 1 | ND |
| 108-05-4 | Vinyl Acetate | 1 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 2 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 2 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

| Compound | Surrogate % Recovery | Acceptable Water Limits |
|-----------------------|----------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 96 | 76-114 |
| Toluene-d8 | 101 | 88-110 |
| 4-Bromofluorobenzene | 101 | 86-115 |

Notes:

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(508) 753-3738

Page 1 of 2

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| | |
|-----------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7222 | REVE Account No.: E2008 |
| Client Sample: EQUIPMENT BLANK #2 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/17/93 | Date Received: 11/17/93 |
| Matrix: Water | Date Run: 11/22/93 |
| Method: 624 | Dilution Factor: 1 |

Analyst: A. Wolf Date: 12-14-93

QC Check: J. Paquin Date: 12/14/93

EPA Method
Detection Limits
for this sample*

| CAS Number | Compound | ug/L | | RESULTS |
|------------|----------------------------|------|---|---------|
| 74-87-3 | Chloromethane | 2 | R | ND |
| 74-83-9 | Bromomethane | 2 | E | ND |
| 75-01-4 | Vinyl Chloride | 2 | V | ND |
| 75-00-3 | Chloroethane | 2 | E | ND |
| 75-09-2 | Methylene chloride | 1 | T | ND |
| 67-64-1 | Acetone | 2 | | ND |
| 75-15-0 | Carbon disulfide | 1 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 1 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 1 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 1 | I | ND |
| 67-66-3 | Chloroform | 1 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 1 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 2 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | M | ND |
| 56-23-5 | Carbon tetrachloride | 1 | E | ND |
| 75-27-4 | Bromodichloromethane | 1 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 1 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | A | ND |
| 79-01-6 | Trichloroethylene | 1 | L | ND |
| 124-48-1 | Dibromochloromethane | 1 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | L | ND |
| 71-43-2 | Benzene | 1 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | B | ND |
| 75-25-2 | Bromoform | 2 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 2 | R | ND |
| 591-78-6 | 2-Hexanone | 2 | A | ND |
| 127-18-4 | Tetrachloroethylene | 1 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | O | ND |
| 108-88-3 | Toluene | 1 | R | ND |
| 108-90-7 | Chlorobenzene | 1 | Y | ND |
| 100-41-4 | Ethylbenzene | 1 | | ND |

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REVET Sample No.: 7222

EPA Method
Detection Limits
for this sample*

RESULTS

| CAS Number | Compound | ug/L | ug/L |
|------------|----------------------------|------|------|
| 100-42-5 | Styrene | 1 | ND |
| 1330-20-7 | Total xylenes | 1 | ND |
| 108-05-4 | Vinyl Acetate | 1 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 2 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 2 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

| Compound | Surrogate % Recovery | Acceptable Water Limits |
|-----------------------|----------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 101 | 76-114 |
| Toluene-d8 | 108 | 88-110 |
| 4-Bromofluorobenzene | 98 | 86-115 |

Notes:

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395
DEP Certification MA #082
(508) 753-3738

Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7223 REVET Account No.: E2008
Client Sample: TRIP BLANK B Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/17/93 Date Received: 11/17/93
Matrix: Water Date Run: 11/22/93
Method: 624 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93
A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS
Detection Limits
for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|----------------------------|------|---|------|
| 74-87-3 | Chloromethane | 2 | R | ND |
| 74-83-9 | Bromomethane | 2 | E | ND |
| 75-01-4 | Vinyl Chloride | 2 | V | ND |
| 75-00-3 | Chloroethane | 2 | E | ND |
| 75-09-2 | Methylene chloride | 1 | T | ND |
| 67-64-1 | Acetone | 2 | | ND |
| 75-15-0 | Carbon disulfide | 1 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 1 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 1 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 1 | I | ND |
| 67-66-3 | Chloroform | 1 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 1 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 2 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | M | ND |
| 56-23-5 | Carbon tetrachloride | 1 | E | ND |
| 75-27-4 | Bromodichloromethane | 1 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 1 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | A | ND |
| 79-01-6 | Trichloroethylene | 1 | L | ND |
| 124-48-1 | Dibromochloromethane | 1 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | L | ND |
| 71-43-2 | Benzene | 1 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | B | ND |
| 75-25-2 | Bromoform | 2 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 2 | R | ND |
| 591-78-6 | 2-Hexanone | 2 | A | ND |
| 127-18-4 | Tetrachloroethylene | 1 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | O | ND |
| 108-88-3 | Toluene | 1 | R | ND |
| 108-90-7 | Chlorobenzene | 1 | Y | ND |
| 100-41-4 | Ethylbenzene | 1 | | ND |

REVEL Sample No.: 7223

EPA Method
Detection Limits
for this sample*

RESULTS

| CAS Number | Compound | ug/L | ug/L |
|------------|----------------------------|------|------|
| 100-42-5 | Styrene | 1 | ND |
| 1330-20-7 | Total xylenes | 1 | ND |
| 108-05-4 | Vinyl Acetate | 1 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 2 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 2 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

| Compound | Surrogate % Recovery | Acceptable Water Limits |
|-----------------------|----------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 99 | 76-114 |
| Toluene-d8 | 106 | 88-110 |
| 4-Bromofluorobenzene | 95 | 86-115 |

Notes:

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395
DEP Certification MA #082
(508) 753-3738

Page 1 of 2

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| | |
|-----------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7224 | REVEN Account No.: E2008 |
| Client Sample: TRIP BLANK C | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/17/93 | Date Received: 11/17/93 |
| Matrix: Water | Date Run: 11/22/93 |
| Method: 624 | Dilution Factor: 1 |

Analyst: A. Wolf Date: 12-14-93
A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS
Detection Limits
for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|----------------------------|------|---|------|
| 74-87-3 | Chloromethane | 2 | R | ND |
| 74-83-9 | Bromomethane | 2 | E | ND |
| 75-01-4 | Vinyl Chloride | 2 | V | ND |
| 75-00-3 | Chloroethane | 2 | E | ND |
| 75-09-2 | Methylene chloride | 1 | T | ND |
| 67-64-1 | Acetone | 2 | | ND |
| 75-15-0 | Carbon disulfide | 1 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 1 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 1 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 1 | I | ND |
| 67-66-3 | Chloroform | 1 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 1 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 2 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | M | ND |
| 56-23-5 | Carbon tetrachloride | 1 | E | ND |
| 75-27-4 | Bromodichloromethane | 1 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 1 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | A | ND |
| 79-01-6 | Trichloroethylene | 1 | L | ND |
| 124-48-1 | Dibromochloromethane | 1 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | L | ND |
| 71-43-2 | Benzene | 1 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | B | ND |
| 75-25-2 | Bromoform | 2 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 2 | R | ND |
| 591-78-6 | 2-Hexanone | 2 | A | ND |
| 127-18-4 | Tetrachloroethylene | 1 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | O | ND |
| 108-88-3 | Toluene | 1 | R | ND |
| 108-90-7 | Chlorobenzene | 1 | Y | ND |
| 100-41-4 | Ethylbenzene | 1 | | ND |

REVE Sample No.: 7224

EPA Method
Detection Limits
for this sample*

RESULTS

| CAS Number | Compound | ug/L | ug/L |
|------------|----------------------------|------|------|
| 100-42-5 | Styrene | 1 | ND |
| 1330-20-7 | Total xylenes | 1 | ND |
| 108-05-4 | Vinyl Acetate | 1 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 2 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 2 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

| Compound | Surrogate % Recovery | Acceptable Water Limits |
|-----------------------|----------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 100 | 76-114 |
| Toluene-d8 | 99 | 88-110 |
| 4-Bromofluorobenzene | 90 | 86-115 |

Notes:

REJET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

DEP Certification MA #082

(508) 460-7600

Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS
 Revet Sample No.: BLANK.2008.2 REVET Account No.: E2008
 Client Sample: LABBLK 11/22 Client Location/P.O.:
 Date Sampled: Date Received:
 Matrix: Water Date Run: 11/22/93
 Method: 624 Dilution Factor: 1

Analyst: J. K. Quinn for Date: 12/14/93
 A. WOLF

QC Check: S. Taylor Date: 12/14/93

EPA Method RESULTS
 Detection Limits
 for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|----------------------------|------|---|------|
| 74-87-3 | Chloromethane | 2 | R | ND |
| 74-83-9 | Bromomethane | 2 | E | ND |
| 75-01-4 | Vinyl Chloride | 2 | V | ND |
| 75-00-3 | Chloroethane | 2 | E | ND |
| 75-09-2 | Methylene chloride | 1 | T | ND |
| 67-64-1 | Acetone | 2 | | ND |
| 75-15-0 | Carbon disulfide | 1 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 1 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 1 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 1 | I | ND |
| 67-66-3 | Chloroform | 1 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 1 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 2 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | M | ND |
| 56-23-5 | Carbon tetrachloride | 1 | E | ND |
| 75-27-4 | Bromodichloromethane | 1 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 1 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | A | ND |
| 79-01-6 | Trichloroethylene | 1 | L | ND |
| 124-48-1 | Dibromochloromethane | 1 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | L | ND |
| 71-43-2 | Benzene | 1 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | B | ND |
| 75-25-2 | Bromoform | 2 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 2 | R | ND |
| 591-78-6 | 2-Hexanone | 2 | A | ND |
| 127-18-4 | Tetrachloroethylene | 1 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | O | ND |
| 108-88-3 | Toluene | 1 | R | ND |
| 108-90-7 | Chlorobenzene | 1 | Y | ND |
| 100-41-4 | Ethylbenzene | 1 | | ND |

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REVET Sample No.: BLANK.2008.2

EPA Method
Detection Limits
for this sample*

RESULTS

| CAS Number | Compound | ug/L | ug/L |
|------------|----------------------------|------|------|
| 100-42-5 | Styrene | 1 | ND |
| 1330-20-7 | Total xylenes | 1 | ND |
| 108-05-4 | Vinyl Acetate | 1 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 2 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 2 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

| Compound | Surrogate % Recovery | Acceptable Water Limits |
|-----------------------|----------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 92 | 76-114 |
| Toluene-d8 | 94 | 88-110 |
| 4-Bromofluorobenzene | 97 | 86-115 |

Notes:

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RENET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.
 15 Belmont Street
 Worcester, MA 01605
 DEP Certification Number 082
 Telephone (508) 753-3738

VOLATILE ORGANIC COMPOUNDS
 QC SUMMARY SHEET

Sample ID: 7208 MS/MSD

Analysis Date: 11/26/93

| Compound | Spike Added ug/l | Sample Concn. ug/l | MS Concn. ug/l | MS % REC. | QC Limits REC. |
|--------------------|---------------------|-----------------------|-------------------|--------------|-------------------|
| 1,1-Dichloroethene | 14000 | 0 | 15000 | 107 | 61-145 |
| Trichloroethylene | 14000 | 0 | 15000 | 107 | 71-120 |
| Benzene | 14000 | 0 | 16000 | 114 | 76-127 |
| Toluene | 14000 | 0 | 17000 | 121 | 76-125 |
| Chlorobenzene | 14000 | 0 | 16000 | 114 | 75-130 |

| Compound | Spike Added ug/l | MSD Concn. ug/l | MSD % REC | % RPD | QC RPD | Limits REC. |
|--------------------|---------------------|--------------------|--------------|----------|-----------|----------------|
| 1,1-Dichloroethene | 14000 | 15000 | 107 | 0 | 14 | 61-145 |
| Trichloroethylene | 14000 | 15000 | 107 | 0 | 14 | 71-120 |
| Benzene | 14000 | 15000 | 107 | 6 | 11 | 76-127 |
| Toluene | 14000 | 15000 | 107 | 13 | 13 | 76-125 |
| Chlorobenzene | 14000 | 15000 | 107 | 6 | 13 | 75-130 |

Comments:

Note: This form follows the EPA Contract Laboratory Program format. Matrix Spike must be analyzed for ten percent of all samples submitted to DEP/DWS to fulfill the monitoring requirements of the Pesticide and Volatile Organic Compound Sampling Programs.

A. Wolf, Analyst

12-14-93
 Date

c:vocgc

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.
15 Belmont Street
Worcester, MA 01605
DEP Certification Number 082
Telephone (508) 753-3738

VOLATILE ORGANIC COMPOUNDS
QC SUMMARY SHEET

Sample ID: 7209 MS/MSD

Analysis Date: 11/19/93

| Compound | Spike Added ug/Kg | Sample Concen. ug/Kg | MS Concen. ug/Kg | MS % REC. | QC Limits REC. |
|--------------------|-------------------------|----------------------------|------------------------|-----------------|----------------------|
| 1,1-Dichloroethene | 52 | 0 | 53 | 102 | 59-172 |
| Trichloroethylene | 52 | 0 | 56 | 108 | 62-137 |
| Benzene | 52 | 0 | 53 | 102 | 66-142 |
| Toluene | 52 | 0 | 52 | 100 | 59-139 |
| Chlorobenzene | 52 | 0 | 52 | 100 | 60-133 |

| Compound | Spike Added ug/Kg | MSD Concen. ug/Kg | MSD % REC | % RPD | QC RPD | Limits REC. |
|--------------------|-------------------------|-------------------------|-----------------|----------|-----------|----------------|
| 1,1-Dichloroethene | 52 | 54 | 104 | 2 | 22 | 59-172 |
| Trichloroethylene | 52 | 51 | 98 | 9 | 24 | 62-137 |
| Benzene | 52 | 55 | 106 | 4 | 21 | 66-142 |
| Toluene | 52 | 56 | 108 | 7 | 21 | 59-139 |
| Chlorobenzene | 52 | 53 | 102 | 2 | 21 | 60-133 |

Comments: _____

Note: This form follows the EPA Contract Laboratory Program format. Matrix Spike must be analyzed for ten percent of all samples submitted to DEP/DWS to fulfill the monitoring requirements of the Pesticide and Volatile Organic Compound Sampling Programs.

J. Pasun for
A Wolf, Analyst

12/14/93
Date

c:vocgc

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.
 15 Belmont Street
 Worcester, MA 01605
 DEP Certification Number 082
 Telephone (508) 753-3738

VOLATILE ORGANIC COMPOUNDS
 QC SUMMARY SHEET

Sample ID: 7213 MS/MSD

Analysis Date: 11/23/93

| Compound | Spike Added ug/Kg | Sample Concen. ug/Kg | MS Concen. ug/Kg | MS % REC. | QC Limits REC. |
|--------------------|-------------------------|----------------------------|------------------------|-----------------|----------------------|
| 1,1-Dichloroethene | 51 | 0 | 57 | 112 | 59-172 |
| Trichloroethylene | 51 | 0 | 53 | 104 | 62-137 |
| Benzene | 51 | 0 | 49 | 96 | 66-142 |
| Toluene | 51 | 0 | 53 | 104 | 59-139 |
| Chlorobenzene | 51 | 0 | 51 | 100 | 60-133 |

| Compound | Spike Added ug/Kg | MSD Concen. ug/Kg | MSD % REC | % RPD | QC RPD | Limits REC. |
|--------------------|-------------------------|-------------------------|-----------------|----------|-----------|----------------|
| 1,1-Dichloroethene | 51 | 53 | 104 | 7 | 22 | 59-172 |
| Trichloroethylene | 51 | 53 | 104 | 0 | 24 | 62-137 |
| Benzene | 51 | 55 | 108 | 12 | 21 | 66-142 |
| Toluene | 51 | 53 | 104 | 0 | 21 | 59-139 |
| Chlorobenzene | 51 | 52 | 102 | 2 | 21 | 60-133 |

Comments: _____

Note: This form follows the EPA Contract Laboratory Program format. Matrix Spike must be analyzed for ten percent of all samples submitted to DEP/DWS to fulfill the monitoring requirements of the Pesticide and Volatile Organic Compound Sampling Programs.

W. Wolf
 A Wolf, Analyst

12/14/93
 Date

c:vocqc

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC
 15 Belmont Street
 Worcester, MA 01605
 DEP Certification Number 082
 Telephone (508) 753-3738

VOLATILE ORGANIC COMPOUNDS
 QC SUMMARY SHEET

Sample ID 7219 MS/MSD

Analysis Date: 11/26/93

| Compound | Spike Added ug/L | Sample Concen. ug/L | MS Concen. ug/L | MS % REC. | QC Limits REC. |
|--------------------|---------------------|------------------------|--------------------|--------------|-------------------|
| 1,1-Dichloroethene | 50 | 0 | 51 | 102 | 61-145 |
| Trichloroethylene | 50 | 0 | 61 | 122 | 71-120 |
| Benzene | 50 | 0 | 61 | 122 | 76-127 |
| Toluene | 50 | 0 | 58 | 116 | 76-125 |
| Chlorobenzene | 50 | 0 | 57 | 114 | 75-130 |

| Compound | Spike Added ug/L | MSD Concen. ug/L | MSD % REC. | % RPD | QC RPD | QC Limits REC. |
|--------------------|---------------------|---------------------|---------------|----------|-----------|-------------------|
| 1,1-Dichloroethene | 50 | 56 | 112 | 9 | 14 | 61-145 |
| Trichloroethylene | 50 | 53 | 106 | 14 | 14 | 71-120 |
| Benzene | 50 | 55 | 110 | 10 | 11 | 76-127 |
| Toluene | 50 | 55 | 110 | 5 | 13 | 76-125 |
| Chlorobenzene | 50 | 53 | 106 | 7 | 13 | 75-130 |

Comments: _____

Note: This form follows the EPA Contract Laboratory Program format. Matrix Spike must be analyzed for ten percent of all samples submitted to DEP/DWS to fulfill the monitoring requirements of the Pesticide and Volatile Organic Compound Sampling Programs.

A. Wolf
 A. Wolf, Analyst

12-14-93
 Date

REJET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395
DEP Certification MA #082
(508) 753-3738

Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: BLANK.1997 REVET Account No.: E1997
Client Sample: LABBLK 11/18 Client Location/P.O.:
Date Sampled: Date Received:
Matrix: Soil Date Run: 11/18/93
Method: 8240 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93
A. WOLF

QC Check: J. Pagnier Date: 12/14/93

EPA Method RESULTS**
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

REVE T Sample No.: BLANK.1997

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture-

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 105 | 70-121 |
| Toluene-d8 | 108 | 84-138 |
| 4-Bromofluorobenzene | 101 | 59-113 |

Notes:

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395
DEP Certification MA #082
(508) 753-3738

Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7160 REVET Account No.: E1997
Client Sample: TRIP BLANK A Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/16/93 Date Received: 11/16/93
Matrix: Water Date Run: 11/26/93
Method: 624 Dilution Factor: 1

Analyst:

A. WOLF

Date:

12-14-93

QC Check:

J. Paquin

Date:

12/14/93

EPA Method

RESULTS

Detection Limits

for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|----------------------------|------|---|------|
| 74-87-3 | Chloromethane | 2 | R | ND |
| 74-83-9 | Bromomethane | 2 | E | ND |
| 75-01-4 | Vinyl Chloride | 2 | V | ND |
| 75-00-3 | Chloroethane | 2 | E | ND |
| 75-09-2 | Methylene chloride | 1 | T | ND |
| 67-64-1 | Acetone | 2 | | ND |
| 75-15-0 | Carbon disulfide | 1 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 1 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 1 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 1 | I | ND |
| 67-66-3 | Chloroform | 1 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 1 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 2 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | M | ND |
| 56-23-5 | Carbon tetrachloride | 1 | E | ND |
| 75-27-4 | Bromodichloromethane | 1 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 1 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | A | ND |
| 79-01-6 | Trichloroethylene | 1 | L | ND |
| 124-48-1 | Dibromochloromethane | 1 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | L | ND |
| 71-43-2 | Benzene | 1 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | B | ND |
| 75-25-2 | Bromoform | 2 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 2 | R | ND |
| 591-78-6 | 2-Hexanone | 2 | A | ND |
| 127-18-4 | Tetrachloroethylene | 1 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | O | ND |
| 108-88-3 | Toluene | 1 | R | ND |
| 108-90-7 | Chlorobenzene | 1 | Y | ND |
| 100-41-4 | Ethylbenzene | 1 | | ND |

REJET Sample No.: 7160

EPA Method
Detection Limits
for this sample*

RESULTS

| CAS Number | Compound | ug/L | ug/L |
|------------|----------------------------|------|------|
| 100-42-5 | Styrene | 1 | ND |
| 1330-20-7 | Total xylenes | 1 | ND |
| 108-05-4 | Vinyl Acetate | 1 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 2 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 2 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

| Compound | Surrogate % Recovery | Acceptable Water Limits |
|-----------------------|----------------------|----------------------------|
| 1,2-Dichloroethane-d4 | 92 | 76-114 |
| Toluene-d8 | 103 | 88-110 |
| 4-Bromofluorobenzene | 86 | 86-115 |

Notes:

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street
Marlboro, MA 01782
DEP Certification # MA082
Telephone (508) 460-7600
Facsimile (508) 460-7777

Client: OpTech

Contact: M. Escobar

Revet Account Numbers: E2008 & E2014

Method: 8270 Matrix: Water

SEMIVOLATILE ANALYSIS

This data package contains the following:

| Revet ID | Client ID |
|------------|--------------------|
| 7236 | Field Blank #1 |
| 7237 | Field Blank #2 |
| 7238 | Equipment Blank #1 |
| 7239 | Equipment Blank #2 |
| 7333 | Equipment Blank #3 |
| 7334 | Field Blank #3 |
| Blank.2008 | Labblk 11/18 |
| QC.11/18 | MS/MSD |

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

(508) 460-7600 MA #082

Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS
 Revet Sample No.: 7236 REVET Account No.: E2008
 Client Sample: FIELD BLANK #1 Location / PO: WORCESTER ANG / P.N. 1315-113
 Date Sampled: 11/17/93 Date Received: 11/17/93
 Matrix: Water Date Run: 12/10/93
 Method: 625 Dilution Factor: 1

Analyst: J. Paquin Date: 12/30/93
 J. Paquin, Ph.D.

QC Check: E. Taylor Date: 12/30/93
 EPA Method
 Detection Limit
 for this sample*

RESULTS

| CAS Number | Compound | ug/L | | ug/L |
|------------|-----------------------------|------|---|------|
| 108-95-2 | Phenol | 10 | R | ND |
| 111-44-4 | Bis(2-chloroethyl)ether | 10 | E | ND |
| 95-57-8 | 2-Chlorophenol | 10 | V | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | E | ND |
| 106-56-7 | 1,4-Dichlorobenzene | 10 | T | ND |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | | ND |
| 95-48-7 | 2-Methylphenol (o-Cresol) | 10 | L | ND |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 10 | A | ND |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10 | B | ND |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | O | ND |
| 67-72-1 | Hexachloroethane | 10 | R | ND |
| 98-95-3 | Nitrobenzene | 10 | A | ND |
| 78-59-1 | Isophorone | 10 | T | ND |
| 88-75-5 | 2-Nitrophenol | 10 | O | ND |
| 105-67-9 | 2,4-Dimethylphenol | 10 | R | ND |
| 111-91-1 | Bis(2-chloroethoxy)methane | 10 | I | ND |
| 120-83-2 | 2,4-Dichlorophenol | 10 | E | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | S | ND |
| 91-20-3 | Naphthalene | 10 | | ND |
| 106-47-8 | 4-Chloroaniline | 10 | I | ND |
| 87-68-3 | Hexachlorobutadiene | 10 | N | ND |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | C | ND |
| 91-57-6 | 2-Methylnaphthalene | 10 | | ND |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | | ND |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | R | ND |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | E | ND |
| 91-58-7 | 2-Chloronaphthalene | 10 | V | ND |
| 88-74-4 | 2-Nitroaniline | 25 | E | ND |
| 131-11-3 | Dimethylphthalate | 10 | T | ND |
| 208-96-8 | Acenaphthylene | 10 | | ND |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | | ND |
| 99-09-2 | 3-Nitroaniline | 25 | L | ND |
| 83-32-9 | Acenaphthene | 10 | A | ND |
| 51-28-5 | 2,4-Dinitrophenol | 25 | B | ND |
| 100-02-7 | 4-Nitrophenol | 25 | S | ND |
| 132-64-9 | Dibenzofuran | 10 | | ND |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | | ND |

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

(508) 460-7600 MA #082

Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS
 Revet Sample No.: 7237 REVET Account No.: E2008
 Client Sample: FIELD BLANK #2 Location / PO: WORCESTER ANG / P.N. 1315-113
 Date Sampled: 11/17/93 Date Received: 11/17/93
 Matrix: Water Date Run: 12/10/93
 Method: 625 Dilution Factor: 1

Analyst: J. Paquin Date: 12/30/93
 J. Paquin, Ph.D.

QC Check: E. Taylor Date: 12/30/93
 Y

EPA Method

RESULTS

Detection Limit
 for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|-----------------------------|------|---|------|
| 108-95-2 | Phenol | 10 | R | ND |
| 111-44-4 | Bis(2-chloroethyl)ether | 10 | E | ND |
| 95-57-8 | 2-Chlorophenol | 10 | V | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | E | ND |
| 106-56-7 | 1,4-Dichlorobenzene | 10 | T | ND |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | | ND |
| 95-48-7 | 2-Methylphenol (o-Cresol) | 10 | L | ND |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 10 | A | ND |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10 | B | ND |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | O | ND |
| 67-72-1 | Hexachloroethane | 10 | R | ND |
| 98-95-3 | Nitrobenzene | 10 | A | ND |
| 78-59-1 | Isophorone | 10 | T | ND |
| 88-75-5 | 2-Nitrophenol | 10 | O | ND |
| 105-67-9 | 2,4-Dimethylphenol | 10 | R | ND |
| 111-91-1 | Bis(2-chloroethoxy)methane | 10 | I | ND |
| 120-83-2 | 2,4-Dichlorophenol | 10 | E | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | S | ND |
| 91-20-3 | Naphthalene | 10 | | ND |
| 106-47-8 | 4-Chloroaniline | 10 | I | ND |
| 87-68-3 | Hexachlorobutadiene | 10 | N | ND |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | C | ND |
| 91-57-6 | 2-Methylnaphthalene | 10 | | ND |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | | ND |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | R | ND |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | E | ND |
| 91-58-7 | 2-Chloronaphthalene | 10 | V | ND |
| 88-74-4 | 2-Nitroaniline | 25 | E | ND |
| 131-11-3 | Dimethylphthalate | 10 | T | ND |
| 208-96-8 | Acenaphthylene | 10 | | ND |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | | ND |
| 99-09-2 | 3-Nitroaniline | 25 | L | ND |
| 83-32-9 | Acenaphthene | 10 | A | ND |
| 51-28-5 | 2,4-Dinitrophenol | 25 | B | ND |
| 100-02-7 | 4-Nitrophenol | 25 | S | ND |
| 132-64-9 | Dibenzofuran | 10 | | ND |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | | ND |

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

(508) 460-7600 MA #082

Page 1 of 2

Client: OPTECH
 Revet Sample No.: 7238
 Client Sample: EQUIPMENT BLANK #1
 Date Sampled: 11/17/93
 Matrix: Water
 Method: 625
 Contact: JOHN MORRIS
 REVET Account No.: E2008
 Location / PO: WORCESTER ANG / P.N. 1315-113
 Date Received: 11/17/93
 Date Run: 12/10/93
 Dilution Factor: 1

Analyst: J. Paquin Date: 12/30/93
 J. Paquin, Ph.D.

QC Check: E Taylor Date: 12/30/93

EPA Method

RESULTS

Detection Limit
 for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|-----------------------------|------|---|------|
| 108-95-2 | Phenol | 10 | R | ND |
| 111-44-4 | Bis(2-chloroethyl)ether | 10 | E | ND |
| 95-57-8 | 2-Chlorophenol | 10 | V | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | E | ND |
| 106-56-7 | 1,4-Dichlorobenzene | 10 | T | ND |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | | ND |
| 95-48-7 | 2-Methylphenol (o-Cresol) | 10 | L | ND |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 10 | A | ND |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10 | B | ND |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | O | ND |
| 67-72-1 | Hexachloroethane | 10 | R | ND |
| 98-95-3 | Nitrobenzene | 10 | A | ND |
| 78-59-1 | Isophorone | 10 | T | ND |
| 88-75-5 | 2-Nitrophenol | 10 | O | ND |
| 105-67-9 | 2,4-Dimethylphenol | 10 | R | ND |
| 111-91-1 | Bis(2-chloroethoxy)methane | 10 | I | ND |
| 120-83-2 | 2,4-Dichlorophenol | 10 | E | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | S | ND |
| 91-20-3 | Naphthalene | 10 | | ND |
| 106-47-8 | 4-Chloroaniline | 10 | I | ND |
| 87-68-3 | Hexachlorobutadiene | 10 | N | ND |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | C | ND |
| 91-57-6 | 2-Methylnaphthalene | 10 | | ND |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | | ND |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | R | ND |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | E | ND |
| 91-58-7 | 2-Chloronaphthalene | 10 | V | ND |
| 88-74-4 | 2-Nitroaniline | 25 | E | ND |
| 131-11-3 | Dimethylphthalate | 10 | T | ND |
| 208-96-8 | Acenaphthylene | 10 | | ND |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | | ND |
| 99-09-2 | 3-Nitroaniline | 25 | L | ND |
| 83-32-9 | Acenaphthene | 10 | A | ND |
| 51-28-5 | 2,4-Dinitrophenol | 25 | B | ND |
| 100-02-7 | 4-Nitrophenol | 25 | S | ND |
| 132-64-9 | Dibenzofuran | 10 | | ND |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | | ND |

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

(508) 460-7600 MA #082

Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS
 Revet Sample No.: 7239 REVET Account No.: E2008
 Client Sample: EQUIPMENT BLANK #2 Location / PO: WORCESTER ANG / P.N. 1315-113
 Date Sampled: 11/17/93 Date Received: 11/17/93
 Matrix: Water Date Run: 12/10/93
 Method: 625 Dilution Factor: 1

Analyst: J. Paquin Date: 12/30/93
 J. Paquin, Ph.D.

QC Check: E. Tylek Date: 12/30/93

EPA Method RESULTS
 Detection Limit
 for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|-----------------------------|------|---|------|
| 108-95-2 | Phenol | 10 | R | ND |
| 111-44-4 | Bis(2-chloroethyl)ether | 10 | E | ND |
| 95-57-8 | 2-Chlorophenol | 10 | V | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | E | ND |
| 106-56-7 | 1,4-Dichlorobenzene | 10 | T | ND |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | | ND |
| 95-48-7 | 2-Methylphenol (o-Cresol) | 10 | L | ND |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 10 | A | ND |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10 | B | ND |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | O | ND |
| 67-72-1 | Hexachloroethane | 10 | R | ND |
| 98-95-3 | Nitrobenzene | 10 | A | ND |
| 78-59-1 | Isophorone | 10 | T | ND |
| 88-75-5 | 2-Nitrophenol | 10 | O | ND |
| 105-67-9 | 2,4-Dimethylphenol | 10 | R | ND |
| 111-91-1 | Bis(2-chloroethoxy)methane | 10 | I | ND |
| 120-83-2 | 2,4-Dichlorophenol | 10 | E | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | S | ND |
| 91-20-3 | Naphthalene | 10 | | ND |
| 106-47-8 | 4-Chloroaniline | 10 | I | ND |
| 87-68-3 | Hexachlorobutadiene | 10 | N | ND |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | C | ND |
| 91-57-6 | 2-Methylnaphthalene | 10 | | ND |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | | ND |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | R | ND |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | E | ND |
| 91-58-7 | 2-Chloronaphthalene | 10 | V | ND |
| 88-74-4 | 2-Nitroaniline | 25 | E | ND |
| 131-11-3 | Dimethylphthalate | 10 | T | ND |
| 208-96-8 | Acenaphthylene | 10 | | ND |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | | ND |
| 99-09-2 | 3-Nitroaniline | 25 | L | ND |
| 83-32-9 | Acenaphthene | 10 | A | ND |
| 51-28-5 | 2,4-Dinitrophenol | 25 | B | ND |
| 100-02-7 | 4-Nitrophenol | 25 | S | ND |
| 132-64-9 | Dibenzofuran | 10 | | ND |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | | ND |

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

(508) 460-7600 MA #082

Page 1 of 2

Client: OPTECH

Revet Sample No.: 7333

Client Sample: EQUIPMENT BLANK #3

Date Sampled: 11/18/93

Matrix: Water

Method: 625

Contact: JOHN MORRIS

REVET Account No.: E2014

Location / PO: WORCESTER ANG / P.N. 1315-113

Date Received: 11/18/93

Date Run: 12/10/93

Dilution Factor: 1

Analyst:

J. Paquin
J. Paquin, Ph.D.

Date:

12/30/93

QC Check:

E. Taylor

Date:

12/30/93

EPA Method

RESULTS

Detection Limit

for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|-----------------------------|------|---|------|
| 108-95-2 | Phenol | 10 | R | ND |
| 111-44-4 | Bis(2-chloroethyl)ether | 10 | E | ND |
| 95-57-8 | 2-Chlorophenol | 10 | V | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | E | ND |
| 106-56-7 | 1,4-Dichlorobenzene | 10 | T | ND |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | | ND |
| 95-48-7 | 2-Methylphenol (o-Cresol) | 10 | L | ND |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 10 | A | ND |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10 | B | ND |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | O | ND |
| 67-72-1 | Hexachloroethane | 10 | R | ND |
| 98-95-3 | Nitrobenzene | 10 | A | ND |
| 78-59-1 | Isophorone | 10 | T | ND |
| 88-75-5 | 2-Nitrophenol | 10 | O | ND |
| 105-67-9 | 2,4-Dimethylphenol | 10 | R | ND |
| 111-91-1 | Bis(2-chloroethoxy)methane | 10 | I | ND |
| 120-83-2 | 2,4-Dichlorophenol | 10 | E | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | S | ND |
| 91-20-3 | Naphthalene | 10 | | ND |
| 106-47-8 | 4-Chloroaniline | 10 | I | ND |
| 87-68-3 | Hexachlorobutadiene | 10 | N | ND |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | C | ND |
| 91-57-6 | 2-Methylnaphthalene | 10 | | ND |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | | ND |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | R | ND |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | E | ND |
| 91-58-7 | 2-Chloronaphthalene | 10 | V | ND |
| 88-74-4 | 2-Nitroaniline | 25 | E | ND |
| 131-11-3 | Dimethylphthalate | 10 | T | ND |
| 208-96-8 | Acenaphthylene | 10 | | ND |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | | ND |
| 99-09-2 | 3-Nitroaniline | 25 | L | ND |
| 83-32-9 | Acenaphthene | 10 | A | ND |
| 51-28-5 | 2,4-Dinitrophenol | 25 | B | ND |
| 100-02-7 | 4-Nitrophenol | 25 | S | ND |
| 132-64-9 | Dibenzofuran | 10 | | ND |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | | ND |

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

(508) 460-7600 MA #082

Page 1 of 2

Client: OPTTECH Contact: JOHN MORRIS
 Revet Sample No.: 7334 REVET Account No.: E2014
 Client Sample: FIELD BLANK #3 Location / PO: WORCESTER ANG / P.N. 1315-113
 Date Sampled: 11/18/93 Date Received: 11/18/93
 Matrix: Water Date Run: 12/10/93
 Method: 625 Dilution Factor: 1

Analyst: J. Paquin
 J. Paquin, Ph.D.

Date: 12/30/93

QC Check: E. Taylor

Date: 12/30/93

EPA Method

RESULTS

Detection Limit
 for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|-----------------------------|------|---|------|
| 108-95-2 | Phenol | 10 | R | ND |
| 111-44-4 | Bis(2-chloroethyl)ether | 10 | E | ND |
| 95-57-8 | 2-Chlorophenol | 10 | V | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | E | ND |
| 106-56-7 | 1,4-Dichlorobenzene | 10 | T | ND |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | | ND |
| 95-48-7 | 2-Methylphenol (o-Cresol) | 10 | L | ND |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 10 | A | ND |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10 | B | ND |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | O | ND |
| 67-72-1 | Hexachloroethane | 10 | R | ND |
| 98-95-3 | Nitrobenzene | 10 | A | ND |
| 78-59-1 | Isophorone | 10 | T | ND |
| 88-75-5 | 2-Nitrophenol | 10 | O | ND |
| 105-67-9 | 2,4-Dimethylphenol | 10 | R | ND |
| 111-91-1 | Bis(2-chloroethoxy)methane | 10 | I | ND |
| 120-83-2 | 2,4-Dichlorophenol | 10 | E | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | S | ND |
| 91-20-3 | Naphthalene | 10 | | ND |
| 106-47-8 | 4-Chloroaniline | 10 | I | ND |
| 87-68-3 | Hexachlorobutadiene | 10 | N | ND |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | C | ND |
| 91-57-6 | 2-Methylnaphthalene | 10 | | ND |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | | ND |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | R | ND |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | E | ND |
| 91-58-7 | 2-Chloronaphthalene | 10 | V | ND |
| 88-74-4 | 2-Nitroaniline | 25 | E | ND |
| 131-11-3 | Dimethylphthalate | 10 | T | ND |
| 208-96-8 | Acenaphthylene | 10 | | ND |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | | ND |
| 99-09-2 | 3-Nitroaniline | 25 | L | ND |
| 83-32-9 | Acenaphthene | 10 | A | ND |
| 51-28-5 | 2,4-Dinitrophenol | 25 | B | ND |
| 100-02-7 | 4-Nitrophenol | 25 | S | ND |
| 132-64-9 | Dibenzofuran | 10 | | ND |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | | ND |

REVE ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

(508) 460-7600 MA #052

Page 1 of 2

Client: OPTECH

Contact: JOHN MORRIS

Revet Sample No.: BLANK.2008

REVE Account No.: E2008

Client Sample: LABBLK 11/18

Location / PO:

Date Sampled:

Date Received:

Matrix: Water

Date Run: 12/10/93

Method: 625

Dilution Factor: 1

Analyst: J. Paquin
J. Paquin, Ph.D.

Date: 12/30/93

QC Check: E. Taylor

Date: 12/30/93

EPA Method

RESULTS

Detection Limit

for this sample*

| CAS Number | Compound | ug/L | | ug/L |
|------------|-----------------------------|------|---|------|
| 108-95-2 | Phenol | 10 | R | ND |
| 111-44-4 | Bis(2-chloroethyl)ether | 10 | E | ND |
| 95-57-8 | 2-Chlorophenol | 10 | V | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | E | ND |
| 106-56-7 | 1,4-Dichlorobenzene | 10 | T | ND |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | | ND |
| 95-48-7 | 2-Methylphenol (o-Cresol) | 10 | L | ND |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 10 | A | ND |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10 | B | ND |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | O | ND |
| 67-72-1 | Hexachloroethane | 10 | R | ND |
| 98-95-3 | Nitrobenzene | 10 | A | ND |
| 78-59-1 | Isophorone | 10 | T | ND |
| 88-75-5 | 2-Nitrophenol | 10 | O | ND |
| 105-67-9 | 2,4-Dimethylphenol | 10 | R | ND |
| 111-91-1 | Bis(2-chloroethoxy)methane | 10 | I | ND |
| 120-83-2 | 2,4-Dichlorophenol | 10 | E | ND |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | S | ND |
| 91-20-3 | Naphthalene | 10 | | ND |
| 106-47-8 | 4-Chloroaniline | 10 | I | ND |
| 87-68-3 | Hexachlorobutadiene | 10 | N | ND |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | C | ND |
| 91-57-6 | 2-Methylnaphthalene | 10 | | ND |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | | ND |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | R | ND |
| 95-95-4 | 2,4,5-Trichlorophenol | 25 | E | ND |
| 91-58-7 | 2-Chloronaphthalene | 10 | V | ND |
| 88-74-4 | 2-Nitroaniline | 25 | E | ND |
| 131-11-3 | Dimethylphthalate | 10 | T | ND |
| 208-96-8 | Acenaphthylene | 10 | | ND |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | | ND |
| 99-09-2 | 3-Nitroaniline | 25 | L | ND |
| 83-32-9 | Acenaphthene | 10 | A | ND |
| 51-28-5 | 2,4-Dinitrophenol | 25 | B | ND |
| 100-02-7 | 4-Nitrophenol | 25 | S | ND |
| 132-64-9 | Dibenzofuran | 10 | | ND |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | | ND |

3C
WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: REVET

Contract:

Lab Code: REVET

Case No.:

SAS No.:

SDG No.:

Matrix Spike - QC 11/18/93

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC LIMITS REC. |
|-------------------------|--------------------------|-----------------------------------|-------------------------------|------------------|----------------------|
| Phenol | 75 | 0 | 66 | 88 | 12-110 |
| 2-Chlorophenol | 75 | 0 | 70 | 93 | 27-123 |
| 1,4-Dichlorobenzene | 50 | 0 | 46 | 92 | 36- 97 |
| N-Nitroso-di-n-prop(1) | 50 | 0 | 43 | 86 | 41-116 |
| 1,2,4-Trichlorobenzene | 50 | 0 | 49 | 98 | 39- 98 |
| 4-Chloro-3-methylphenol | 75 | 0 | 78 | 104 | 23- 97 |
| Acenaphthene | 50 | 0 | 56 | 112 | 46-118 |
| 4-Nitrophenol | 75 | 0 | 85 | 113 | 10- 80 |
| 2,4-Dinitrotoluene | 50 | 0 | 54 | 104 | 24- 96 |
| Pentachlorophenol | 75 | 0 | 104 | 139 | 9-103 |
| Pyrene | 50 | 0 | 51 | 102 | 26-127 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD REC. |
|-------------------------|--------------------------|--------------------------------|-------------------|------------|-----------------------|
| Phenol | 75 | — | | | 12 12-110 |
| 2-Chlorophenol | 75 | — | | | 10 27-123 |
| 1,4-Dichlorobenzene | 50 | — | | | 18 36- 97 |
| N-Nitroso-di-n-prop(1) | 50 | — | | | 18 41-116 |
| 1,2,4-Trichlorobenzene | 50 | — | | | 18 39- 98 |
| 4-Chloro-3-methylphenol | 75 | — | | | 2 23- 97 |
| Acenaphthene | 50 | — | | | 1 46-118 |
| 4-Nitrophenol | 75 | — | | | 0 10- 80 |
| 2,4-Dinitrotoluene | 50 | — | | | 8 24- 96 |
| Pentachlorophenol | 75 | — | | | 0 9-103 |
| Pyrene | 50 | — | | | 1 26-127 |

(1) N-Nitroso-di-n-propylamine

ONLY MS
WAS REPORTED
MISSING
MSD RESULTS!

Column to be used to flag recovery

* Values outside of QC limits

RPD: _____ out of _____ outside

Spike Recovery: 4 out of 11 outside limits

COMMENTS:

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7326 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-023DL

Sample wt/vol: 30.12 (g/mL) g

Lab File ID: DH158.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|---------------|------------------------------|-------|-----|
| 108-95-2----- | Phenol | 7500 | U D |
| 62-53-3----- | Aniline | 7500 | U D |
| 111-44-4----- | bis(2-Chloroethyl) ether | 7500 | U D |
| 95-57-8----- | 2-Chlorophenol | 7500 | U D |
| 541-73-1----- | 1,3-Dichlorobenzene | 7500 | U D |
| 106-46-7----- | 1,4-Dichlorobenzene | 7500 | U D |
| 100-51-6----- | Benzyl Alcohol | 7500 | U D |
| 95-50-1----- | 1,2-Dichlorobenzene | 7500 | U D |
| 95-48-7----- | 2-Methylphenol | 7500 | U D |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 7500 | U D |
| 106-44-5----- | 4-Methylphenol | 7500 | U D |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 7500 | U D |
| 67-72-1----- | Hexachloroethane | 7500 | U D |
| 98-95-3----- | Nitrobenzene | 7500 | U D |
| 78-59-1----- | Isophorone | 7500 | U D |
| 88-75-5----- | 2-Nitrophenol | 7500 | U D |
| 105-67-9----- | 2,4-Dimethylphenol | 7500 | U D |
| 65-85-0----- | Benzoic Acid | 19000 | U D |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 7500 | U D |
| 120-83-2----- | 2,4-Dichlorophenol | 7500 | U D |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 7500 | U D |
| 91-20-3----- | Naphthalene | 7500 | U D |
| 106-47-8----- | 4-Chloroaniline | 7500 | U D |
| 87-68-3----- | Hexachlorobutadiene | 7500 | U D |
| 59-50-7----- | 4-Chloro-3-methylphenol | 7500 | U D |
| 91-57-6----- | 2-Methylnaphthalene | 7500 | U D |
| 77-47-4----- | Hexachlorocyclopentadiene | 7500 | U D |
| 88-06-2----- | 2,4,6-Trichlorophenol | 7500 | U D |
| 95-95-4----- | 2,4,5-Trichlorophenol | 19000 | U D |
| 91-58-7----- | 2-Chloronaphthalene | 7500 | U D |
| 88-74-4----- | 2-Nitroaniline | 19000 | U D |
| 131-11-3----- | Dimethylphthalate | 7500 | U D |
| 208-96-8----- | Acenaphthylene | 7500 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7326 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-023 DL

Sample wt/vol: 30.12 (g/mL) g

Lab File ID: DH158.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

| | | | |
|----------------|----------------------------|-------|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 7500 | U D |
| 99-09-2----- | 3-Nitroaniline | 19000 | U D |
| 83-32-9----- | Acenaphthene | 7500 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 19000 | U D |
| 100-02-7----- | 4-Nitrophenol | 19000 | U D |
| 132-64-9----- | Dibenzofuran | 7500 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 7500 | U D |
| 84-66-2----- | Diethylphthalate | 7500 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 7500 | U D |
| 86-73-7----- | Fluorene | 7500 | U D |
| 100-01-6----- | 4-Nitroaniline | 19000 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 19000 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 7500 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 7500 | U D |
| 118-74-1----- | Hexachlorobenzene | 7500 | U D |
| 87-86-5----- | Pentachlorophenol | 19000 | U D |
| 85-01-8----- | Phenanthrene | 1500 | JD |
| 120-12-7----- | Anthracene | 7500 | U D |
| 86-74-8----- | Carbazole | 7500 | U D |
| 84-74-2----- | Di-n-butylphthalate | 7500 | U D |
| 206-44-0----- | Fluoranthene | 2300 | JD |
| 92-87-5----- | Benzidine | 7500 | U D |
| 129-00-0----- | Pyrene | 2800 | JD |
| 85-68-7----- | Butylbenzylphthalate | 7500 | U D |
| 91-94-1----- | 1,3'-Dichlorobenzidine | 7500 | U D |
| 56-55-3----- | Benzo(a)anthracene | 7500 | U D |
| 218-01-9----- | Chrysene | 1500 | JD |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 7500 | U D |
| 117-84-0----- | Di-n-octylphthalate | 7500 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 7500 | U D |
| 207-08-9----- | Benzo(k)fluoranthene | 7500 | U D |
| 50-32-8----- | Benzo(a)pyrene | 1400 | JD |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 7500 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7326 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-023 DL

Sample wt/vol: 30.12 (g/mL) g

Lab File ID: ^DH158.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| | | |
|------------------------------------|------|-----|
| 53-70-3-----Dibenzo(a,h)anthracene | 7500 | U D |
| 191-24-2-----Benzo(g,h,i)perylene | 1400 | JD |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7328 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-025 *DL*

Sample wt/vol: 30.26 (g/mL) g

Lab File ID: DH160.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | | |
|---------------|------------------------------|-------|-----|
| 108-95-2----- | Phenol | 8300 | U D |
| 62-53-3----- | Aniline | 8300 | U D |
| 111-44-4----- | bis(2-Chloroethyl) ether | 8300 | U D |
| 95-57-8----- | 2-Chlorophenol | 8300 | U D |
| 541-73-1----- | 1,3-Dichlorobenzene | 8300 | U D |
| 106-46-7----- | 1,4-Dichlorobenzene | 8300 | U D |
| 100-51-6----- | Benzyl Alcohol | 8300 | U D |
| 95-50-1----- | 1,2-Dichlorobenzene | 8300 | U D |
| 95-48-7----- | 2-Methylphenol | 8300 | U D |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 8300 | U D |
| 106-44-5----- | 4-Methylphenol | 8300 | U D |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 8300 | U D |
| 67-72-1----- | Hexachloroethane | 8300 | U D |
| 98-95-3----- | Nitrobenzene | 8300 | U D |
| 78-59-1----- | Isophorone | 8300 | U D |
| 88-75-5----- | 2-Nitrophenol | 8300 | U D |
| 105-67-9----- | 2,4-Dimethylphenol | 8300 | U D |
| 65-85-0----- | Benzoic Acid | 21000 | U D |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 8300 | U D |
| 120-83-2----- | 2,4-Dichlorophenol | 8300 | U D |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 8300 | U D |
| 91-20-3----- | Naphthalene | 8300 | U D |
| 106-47-8----- | 4-Chloroaniline | 8300 | U D |
| 87-68-3----- | Hexachlorobutadiene | 8300 | U D |
| 59-50-7----- | 4-Chloro-3-methylphenol | 8300 | U D |
| 91-57-6----- | 2-Methylnaphthalene | 8300 | U D |
| 77-47-4----- | Hexachlorocyclopentadiene | 8300 | U D |
| 88-06-2----- | 2,4,6-Trichlorophenol | 8300 | U D |
| 95-95-4----- | 2,4,5-Trichlorophenol | 21000 | U D |
| 91-58-7----- | 2-Chloronaphthalene | 8300 | U D |
| 88-74-4----- | 2-Nitroaniline | 21000 | U D |
| 131-11-3----- | Dimethylphthalate | 8300 | U D |
| 208-96-8----- | Acenaphthylene | 8300 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7328 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-025 DL

Sample wt/vol: 30.26 (g/mL) g

Lab File ID: DH160.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 20. decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | | |
|----------------|----------------------------|-------|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 8300 | U D |
| 99-09-2----- | 3-Nitroaniline | 21000 | U D |
| 83-32-9----- | Acenaphthene | 8300 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 21000 | U D |
| 100-02-7----- | 4-Nitrophenol | 21000 | U D |
| 132-64-9----- | Dibenzofuran | 8300 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 8300 | U D |
| 84-66-2----- | Diethylphthalate | 8300 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 8300 | U D |
| 86-73-7----- | Fluorene | 8300 | U D |
| 100-01-6----- | 4-Nitroaniline | 21000 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 21000 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 8300 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 8300 | U D |
| 118-74-1----- | Hexachlorobenzene | 8300 | U D |
| 87-86-5----- | Pentachlorophenol | 21000 | U D |
| 85-01-8----- | Phenanthrene | 5300 | JD |
| 120-12-7----- | Anthracene | 1400 | JD |
| 86-74-8----- | Carbazole | 8300 | U D |
| 84-74-2----- | Di-n-butylphthalate | 8300 | U D |
| 206-44-0----- | Fluoranthene | 6800 | JD |
| 92-87-5----- | Benzidine | 8300 | U D |
| 129-00-0----- | Pyrene | 8400 | D |
| 85-68-7----- | Butylbenzylphthalate | 8300 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 8300 | U D |
| 56-55-3----- | Benzo(a)anthracene | 3400 | JD |
| 218-01-9----- | Chrysene | 3600 | JD |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 8300 | U D |
| 117-84-0----- | Di-n-octylphthalate | 8300 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 3300 | JD |
| 207-08-9----- | Benzo(k)fluoranthene | 2300 | JD |
| 50-32-8----- | Benzo(a)pyrene | 3200 | JD |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 8300 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7328 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-025 *DL*

Sample wt/vol: 30.26 (g/mL) g

Lab File ID: ^DH160.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

| | | | |
|---------------|------------------------|------|-----|
| 53-70-3----- | Dibenzo(a,h)anthracene | 8300 | U D |
| 191-24-2----- | Benzo(g,h,i)perylene | 1800 | JD |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7331 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-030 DL

Sample wt/vol: 30.01 (g/mL) g

Lab File ID: ^DH162.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|---------------|------------------------------|-------|-----|
| 108-95-2----- | Phenol | 7500 | U D |
| 62-53-3----- | Aniline | 7500 | U D |
| 111-44-4----- | bis(2-Chloroethyl) ether | 7500 | U D |
| 95-57-8----- | 2-Chlorophenol | 7500 | U D |
| 541-73-1----- | 1,3-Dichlorobenzene | 7500 | U D |
| 106-46-7----- | 1,4-Dichlorobenzene | 7500 | U D |
| 100-51-6----- | Benzyl Alcohol | 7500 | U D |
| 95-50-1----- | 1,2-Dichlorobenzene | 7500 | U D |
| 95-48-7----- | 2-Methylphenol | 7500 | U D |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 7500 | U D |
| 106-44-5----- | 4-Methylphenol | 7500 | U D |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 7500 | U D |
| 67-72-1----- | Hexachloroethane | 7500 | U D |
| 98-95-3----- | Nitrobenzene | 7500 | U D |
| 78-59-1----- | Isophorone | 7500 | U D |
| 88-75-5----- | 2-Nitrophenol | 7500 | U D |
| 105-67-9----- | 2,4-Dimethylphenol | 7500 | U D |
| 65-85-0----- | Benzoic Acid | 19000 | U D |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 7500 | U D |
| 120-83-2----- | 2,4-Dichlorophenol | 7500 | U D |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 7500 | U D |
| 91-20-3----- | Naphthalene | 7500 | U D |
| 106-47-8----- | 4-Chloroaniline | 7500 | U D |
| 87-68-3----- | Hexachlorobutadiene | 7500 | U D |
| 59-50-7----- | 4-Chloro-3-methylphenol | 7500 | U D |
| 91-57-6----- | 2-Methylnaphthalene | 7500 | U D |
| 77-47-4----- | Hexachlorocyclopentadiene | 7500 | U D |
| 88-06-2----- | 2,4,6-Trichlorophenol | 7500 | U D |
| 95-95-4----- | 2,4,5-Trichlorophenol | 19000 | U D |
| 91-58-7----- | 2-Chloronaphthalene | 7500 | U D |
| 88-74-4----- | 2-Nitroaniline | 19000 | U D |
| 131-11-3----- | Dimethylphthalate | 7500 | U D |
| 208-96-8----- | Acenaphthylene | 7500 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7331 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-030 DL

Sample wt/vol: 30.01 (g/mL) g

Lab File ID: DH162.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|----------------|----------------------------|---|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 7500 | U D |
| 99-09-2----- | 3-Nitroaniline | 19000 | U D |
| 83-32-9----- | Acenaphthene | 7500 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 19000 | U D |
| 100-02-7----- | 4-Nitrophenol | 19000 | U D |
| 132-64-9----- | Dibenzofuran | 7500 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 7500 | U D |
| 84-66-2----- | Diethylphthalate | 7500 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 7500 | U D |
| 86-73-7----- | Fluorene | 7500 | U D |
| 100-01-6----- | 4-Nitroaniline | 19000 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 19000 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 7500 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 7500 | U D |
| 118-74-1----- | Hexachlorobenzene | 7500 | U D |
| 87-86-5----- | Pentachlorophenol | 19000 | U D |
| 85-01-8----- | Phenanthrene | 7500 | U D |
| 120-12-7----- | Anthracene | 7500 | U D |
| 86-74-8----- | Carbazole | 7500 | U D |
| 84-74-2----- | Di-n-butylphthalate | 7500 | U D |
| 206-44-0----- | Fluoranthene | 7500 | U D |
| 92-87-5----- | Benzidine | 7500 | U D |
| 129-00-0----- | Pyrene | 7500 | U D |
| 85-68-7----- | Butylbenzylphthalate | 7500 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 7500 | U D |
| 56-55-3----- | Benzo(a)anthracene | 7500 | U D |
| 218-01-9----- | Chrysene | 7500 | U D |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 7500 | U D |
| 117-84-0----- | Di-n-octylphthalate | 7500 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 7500 | U D |
| 207-08-9----- | Benzo(k)fluoranthene | 7500 | U D |
| 50-32-8----- | Benzo(a)pyrene | 7500 | U D |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 7500 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7331 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-030 DL

Sample wt/vol: 30.01 (g/mL) g

Lab File ID: DH162.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---------------|------------------------|---|-----|
| 53-70-3----- | Dibenzo(a,h)anthracene | 7500 | U D |
| 191-24-2----- | Benzo(g,h,i)perylene | 7500 | U D |

Blank Data

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/19/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1502

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH106.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/05/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | UG/KG | Q |
|---------------|------------------------------|-------|---|
| 108-95-2----- | Phenol | 330 | U |
| 62-53-3----- | Aniline | 330 | U |
| 111-44-4----- | bis(2-Chloroethyl) ether | 330 | U |
| 95-57-8----- | 2-Chlorophenol | 330 | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 330 | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 330 | U |
| 100-51-6----- | Benzyl Alcohol | 330 | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 330 | U |
| 95-48-7----- | 2-Methylphenol | 330 | U |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 330 | U |
| 106-44-5----- | 4-Methylphenol | 330 | U |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 330 | U |
| 67-72-1----- | Hexachloroethane | 330 | U |
| 98-95-3----- | Nitrobenzene | 330 | U |
| 78-59-1----- | Isophorone | 330 | U |
| 88-75-5----- | 2-Nitrophenol | 330 | U |
| 105-67-9----- | 2,4-Dimethylphenol | 330 | U |
| 65-85-0----- | Benzoic Acid | 830 | U |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 330 | U |
| 120-83-2----- | 2,4-Dichlorophenol | 330 | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 330 | U |
| 91-20-3----- | Naphthalene | 330 | U |
| 106-47-8----- | 4-Chloroaniline | 330 | U |
| 87-68-3----- | Hexachlorobutadiene | 330 | U |
| 59-50-7----- | 4-Chloro-3-methylphenol | 330 | U |
| 91-57-6----- | 2-Methylnaphthalene | 330 | U |
| 77-47-4----- | Hexachlorocyclopentadiene | 330 | U |
| 88-06-2----- | 2,4,6-Trichlorophenol | 330 | U |
| 95-95-4----- | 2,4,5-Trichlorophenol | 830 | U |
| 91-58-7----- | 2-Chloronaphthalene | 330 | U |
| 88-74-4----- | 2-Nitroaniline | 830 | U |
| 131-11-3----- | Dimethylphthalate | 330 | U |
| 208-96-8----- | Acenaphthylene | 330 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/19/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1502

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH106.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/05/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.

COMPOUND

| | | | |
|----------------|----------------------------|-----|---|
| 606-20-2----- | 2,6-Dinitrotoluene | 330 | U |
| 99-09-2----- | 3-Nitroaniline | 830 | U |
| 83-32-9----- | Acenaphthene | 330 | U |
| 51-28-5----- | 2,4-Dinitrophenol | 830 | U |
| 100-02-7----- | 4-Nitrophenol | 830 | U |
| 132-64-9----- | Dibenzofuran | 330 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 330 | U |
| 84-66-2----- | Diethylphthalate | 50 | J |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 330 | U |
| 86-73-7----- | Fluorene | 330 | U |
| 100-01-6----- | 4-Nitroaniline | 830 | U |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 830 | U |
| 86-30-6----- | N-Nitrosodiphenylamine | 330 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 330 | U |
| 118-74-1----- | Hexachlorobenzene | 330 | U |
| 87-86-5----- | Pentachlorophenol | 830 | U |
| 85-01-8----- | Phenanthrene | 330 | U |
| 120-12-7----- | Anthracene | 330 | U |
| 86-74-8----- | Carbazole | 330 | U |
| 84-74-2----- | Di-n-butylphthalate | 330 | U |
| 206-44-0----- | Fluoranthene | 330 | U |
| 92-87-5----- | Benzidine | 330 | U |
| 129-00-0----- | Pyrene | 330 | U |
| 85-68-7----- | Butylbenzylphthalate | 330 | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 330 | U |
| 56-55-3----- | Benzo(a)anthracene | 330 | U |
| 218-01-9----- | Chrysene | 330 | U |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 330 | U |
| 117-84-0----- | Di-n-octylphthalate | 330 | U |
| 205-99-2----- | Benzo(b)fluoranthene | 330 | U |
| 207-08-9----- | Benzo(k)fluoranthene | 330 | U |
| 50-32-8----- | Benzo(a)pyrene | 330 | U |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 330 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/19/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1502

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH106.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/05/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | |
|------------------------------------|-----|---|
| 53-70-3-----Dibenzo(a,h)anthracene | 330 | U |
| 191-24-2-----Benzo(g,h,i)perylene | 330 | U |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MBLK-11/19/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1502

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH106.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/05/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICS found: 7

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|---|
| 1. | Aldol Product | 5.02 | 1400 | J |
| 2. | Unknown | 5.40 | 170 | J |
| 3. | Unknown | 5.45 | 140 | J |
| 4. | Unknown | 5.92 | 180 | J |
| 5. | Unknown | 6.46 | 140 | J |
| 6. | Unknown | 6.93 | 190 | J |
| 7. | Unknown | 7.08 | 130 | J |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/22/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1503

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH107.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | | |
|----------|------------------------------|-----|---|
| 108-95-2 | Phenol | 330 | U |
| 62-53-3 | Aniline | 330 | U |
| 111-44-4 | bis(2-Chloroethyl) ether | 330 | U |
| 95-57-8 | 2-Chlorophenol | 330 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 330 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 330 | U |
| 100-51-6 | Benzyl Alcohol | 330 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 330 | U |
| 95-48-7 | 2-Methylphenol | 330 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 330 | U |
| 106-44-5 | 4-Methylphenol | 330 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 330 | U |
| 67-72-1 | Hexachloroethane | 330 | U |
| 98-95-3 | Nitrobenzene | 330 | U |
| 78-59-1 | Isophorone | 330 | U |
| 88-75-5 | 2-Nitrophenol | 330 | U |
| 105-67-9 | 2,4-Dimethylphenol | 330 | U |
| 65-85-0 | Benzoic Acid | 830 | U |
| 111-91-1 | bis(2-Chloroethoxy) methane | 330 | U |
| 120-83-2 | 2,4-Dichlorophenol | 330 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 330 | U |
| 91-20-3 | Naphthalene | 330 | U |
| 106-47-8 | 4-Chloroaniline | 330 | U |
| 87-68-3 | Hexachlorobutadiene | 330 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 330 | U |
| 91-57-6 | 2-Methylnaphthalene | 330 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 330 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 330 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 830 | U |
| 91-58-7 | 2-Chloronaphthalene | 330 | U |
| 88-74-4 | 2-Nitroaniline | 830 | U |
| 131-11-3 | Dimethylphthalate | 330 | U |
| 208-96-8 | Acenaphthylene | 330 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/22/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1503

Sample wt/vol: 30 (g/mL) g

Lab File ID: ^DH107.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

| | | | |
|----------------|----------------------------|-----|---|
| 606-20-2----- | 2,6-Dinitrotoluene | 330 | U |
| 99-09-2----- | 3-Nitroaniline | 830 | U |
| 83-32-9----- | Acenaphthene | 330 | U |
| 51-28-5----- | 2,4-Dinitrophenol | 830 | U |
| 100-02-7----- | 4-Nitrophenol | 830 | U |
| 132-64-9----- | Dibenzofuran | 330 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 330 | U |
| 84-66-2----- | Diethylphthalate | 330 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 330 | U |
| 86-73-7----- | Fluorene | 330 | U |
| 100-01-6----- | 4-Nitroaniline | 830 | U |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 830 | U |
| 86-30-6----- | N-Nitrosodiphenylamine | 330 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether. | 330 | U |
| 118-74-1----- | Hexachlorobenzene | 330 | U |
| 87-86-5----- | Pentachlorophenol | 830 | U |
| 85-01-8----- | Phenanthrene | 330 | U |
| 120-12-7----- | Anthracene | 330 | U |
| 86-74-8----- | Carbazole | 330 | U |
| 84-74-2----- | Di-n-butylphthalate | 330 | U |
| 206-44-0----- | Fluoranthene | 330 | U |
| 92-87-5----- | Benzidine | 330 | U |
| 129-00-0----- | Pyrene | 330 | U |
| 85-68-7----- | Butylbenzylphthalate | 330 | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 330 | U |
| 56-55-3----- | Benzo(a)anthracene | 330 | U |
| 218-01-9----- | Chrysene | 330 | U |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 330 | U |
| 117-84-0----- | Di-n-octylphthalate | 330 | U |
| 205-99-2----- | Benzo(b)fluoranthene | 330 | U |
| 207-08-9----- | Benzo(k)fluoranthene | 330 | U |
| 50-32-8----- | Benzo(a)pyrene | 330 | U |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 330 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/22/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1503

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH107.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | | |
|---------------|------------------------|-----|---|
| 53-70-3----- | Dibenzo(a,h)anthracene | 330 | U |
| 191-24-2----- | Benzo(g,h,i)perylene | 330 | U |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MBLK-11/22/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1503

Sample wt/vol: 30 (g/mL) g

Lab File ID: ^DH107.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICS found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|---|
| 1. | Aldol Product | 5.04 | 1900 | J |
| 2. | Unknown | 5.42 | 240 | J |
| 3. | Unknown | 6.94 | 250 | J |
| 4. | | | | |
| 5. | | | | |
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| 29. | | | | |
| 30. | | | | |

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/24/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1504

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH108.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | | |
|---------------|------------------------------|-----|---|
| 108-95-2----- | Phenol | 330 | U |
| 62-53-3----- | Aniline | 330 | U |
| 111-44-4----- | bis(2-Chloroethyl) ether | 330 | U |
| 95-57-8----- | 2-Chlorophenol | 330 | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 330 | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 330 | U |
| 100-51-6----- | Benzyl Alcohol | 330 | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 330 | U |
| 95-48-7----- | 2-Methylphenol | 330 | U |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 330 | U |
| 106-44-5----- | 4-Methylphenol | 330 | U |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 330 | U |
| 67-72-1----- | Hexachloroethane | 330 | U |
| 98-95-3----- | Nitrobenzene | 330 | U |
| 78-59-1----- | Isophorone | 330 | U |
| 88-75-5----- | 2-Nitrophenol | 330 | U |
| 105-67-9----- | 2,4-Dimethylphenol | 330 | U |
| 65-85-0----- | Benzoic Acid | 830 | U |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 330 | U |
| 120-83-2----- | 2,4-Dichlorophenol | 330 | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 330 | U |
| 91-20-3----- | Naphthalene | 330 | U |
| 106-47-8----- | 4-Chloroaniline | 330 | U |
| 87-68-3----- | Hexachlorobutadiene | 330 | U |
| 59-50-7----- | 4-Chloro-3-methylphenol | 330 | U |
| 91-57-6----- | 2-Methylnaphthalene | 330 | U |
| 77-47-4----- | Hexachlorocyclopentadiene | 330 | U |
| 88-06-2----- | 2,4,6-Trichlorophenol | 330 | U |
| 95-95-4----- | 2,4,5-Trichlorophenol | 830 | U |
| 91-58-7----- | 2-Chloronaphthalene | 330 | U |
| 88-74-4----- | 2-Nitroaniline | 830 | U |
| 131-11-3----- | Dimethylphthalate | 330 | U |
| 208-96-8----- | Acenaphthylene | 330 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/24/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1504

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH108.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | | |
|----------------|----------------------------|-----|---|
| 606-20-2----- | 2,6-Dinitrotoluene | 330 | U |
| 99-09-2----- | 3-Nitroaniline | 830 | U |
| 83-32-9----- | Acenaphthene | 330 | U |
| 51-28-5----- | 2,4-Dinitrophenol | 830 | U |
| 100-02-7----- | 4-Nitrophenol | 830 | U |
| 132-64-9----- | Dibenzofuran | 330 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 330 | U |
| 84-66-2----- | Diethylphthalate | 330 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 330 | U |
| 86-73-7----- | Fluorene | 330 | U |
| 100-01-6----- | 4-Nitroaniline | 830 | U |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 830 | U |
| 86-30-6----- | N-Nitrosodiphenylamine | 330 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 330 | U |
| 118-74-1----- | Hexachlorobenzene | 330 | U |
| 87-86-5----- | Pentachlorophenol | 830 | U |
| 85-01-8----- | Phenanthrene | 330 | U |
| 120-12-7----- | Anthracene | 330 | U |
| 86-74-8----- | Carbazole | 330 | U |
| 84-74-2----- | Di-n-butylphthalate | 330 | U |
| 206-44-0----- | Fluoranthene | 330 | U |
| 92-87-5----- | Benzidine | 330 | U |
| 129-00-0----- | Pyrene | 330 | U |
| 85-68-7----- | Butylbenzylphthalate | 330 | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 330 | U |
| 56-55-3----- | Benzo(a)anthracene | 330 | U |
| 218-01-9----- | Chrysene | 330 | U |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 360 | |
| 117-84-0----- | Di-n-octylphthalate | 330 | U |
| 205-99-2----- | Benzo(b)fluoranthene | 330 | U |
| 207-08-9----- | Benzo(k)fluoranthene | 330 | U |
| 50-32-8----- | Benzo(a)pyrene | 330 | U |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 330 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/24/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1504

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH108.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | |
|------------------------------------|-----|---|
| 53-70-3-----Dibenzo(a,h)anthracene | 330 | U |
| 191-24-2-----Benzo(g,h,i)perylene | 330 | U |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MBLK-11/24/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1504

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH108.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICS found: 6

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|---|
| 1. | Aldol Product | 5.03 | 1500 | J |
| 2. | Unknown | 5.41 | 170 | J |
| 3. | Unknown | 5.93 | 260 | J |
| 4. | Unknown | 6.47 | 260 | J |
| 5. | Unknown | 6.93 | 220 | J |
| 6. | Unknown | 7.09 | 280 | J |
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Surrogate Spike Results

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Level: (low/med) LOW

| SAMPLE NO. | S1 (NBZ) # | S2 (FBP) # | S3 (TPH) # | S4 (PHL) # | S5 (2FP) # | S6 (TBP) # | S7 (2CP) # | S8 (DCB) # | TOT OUT |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|
| MBLK-11/19/93 | 85 | 111 | 125 | 69 | 73 | 94 | 68 | 94 | 0 |
| MBLK-11/22/93 | 72 | 98 | 101 | 79 | 73 | 90 | 79 | 82 | 0 |
| MBLK-11/24/93 | 90 | 96 | 112 | 75 | 64 | 94 | 64 | 79 | 0 |
| 7140 | 93 | 106 | 134 | 66 | 60 | 72 | 69 | 79 | 0 |
| 7230 | 83 | 108 | 118 | 76 | 80 | 79 | 81 | 96 | 0 |
| 7141 | 121 * | 118 * | 139 * | 84 | 81 | 88 | 78 | 92 | 3 |
| 7229 ^D | 85 | 102 | 111 | 72 | 66 | 84 | 80 | 69 | 0 |
| 7226 | 100 | 104 | 123 | 78 | 74 | 95 | 72 | 76 | 0 |
| 7232 | 109 | 111 | 129 | 78 | 77 | 95 | 70 | 85 | 0 |
| 7142 | 113 | 124 * | 147 * | 74 | 82 | 90 | 76 | 90 | 2 |
| 7143 | 89 | 88 | 109 | 56 | 58 | 61 | 54 | 66 | 0 |
| 7144 | 75 | 89 | 98 | 62 | 63 | 56 | 59 | 70 | 0 |
| 7233 | 157 * | 61 | 67 | 92 | 95 | 56 | 90 | 79 | 1 |
| 7229 | 71 | 100 | 142 * | 71 | 70 | 92 | 73 | 68 | 1 |
| 7227 | 112 | 110 | 140 * | 76 | 88 | 101 | 84 | 88 | 1 |
| 7228 | 84 | 96 | 128 | 112 | 103 | 74 | 107 | 119 | 0 |
| 7231 | 120 | 109 | 175 * | 104 | 130 * | 81 | 121 | 125 | 2 |
| 7225 | 83 | 96 | 131 | 67 | 56 | 45 | 77 | 79 | 0 |
| 7233 ^D | 101 | 62 | 93 | 53 | 47 | 52 | 61 | 61 | 0 |
| 7325 | 116 | 114 | 160 * | 82 | 77 | 68 | 104 | 98 | 1 |
| 7325 MS | 102 | 119 * | 159 * | 96 | 78 | 71 | 94 | 108 | 2 |
| 7325 MSD | 102 | 121 * | 165 * | 96 | 77 | 70 | 98 | 110 | 2 |
| 7330 | 96 | 119 * | 177 * | 98 | 75 | 63 | 92 | 101 | 2 |
| 7330 MS | 96 | 121 * | 164 * | 101 | 78 | 63 | 89 | 108 | 2 |
| 7330 MSD | 94 | 121 * | 161 * | 94 | 76 | 67 | 91 | 109 | 2 |
| 7234 | 93 | 118 * | 171 * | 98 | 78 | 52 | 97 | 106 | 2 |
| 7235 | 102 | 117 * | 165 * | 95 | 76 | 50 | 98 | 106 | 2 |
| 7326 | 97 | 109 | 146 * | 74 | 68 | 54 | 88 | 96 | 1 |
| 7327 | 113 | 116 * | 173 * | 79 | 75 | 45 | 103 | 87 | 2 |
| 7328 | 108 | 120 * | 170 * | 98 | 77 | 59 | 96 | 109 | 2 |

S1 = Nitrobenzene-d5
 S2 = 2-Fluorobiphenyl
 S3 = Terphenyl-d14
 S4 (PHL) = Phenol-d6
 S5 (2FP) = 2-Fluorophenol
 S6 (TBP) = 2,4,6-Tribromophenol
 S7 (2CP) = 2-Chlorophenol-d4
 S8 (DCB) = 1,2-Dichlorobenzene-d4

QC LIMITS

(23-120)
 (30-115)
 (18-137)
 (24-113)
 (25-121)
 (19-122)
 (20-130) (advisory)
 (20-130) (advisory)

Column to be used to flag recovery values
 * Values outside of QC limits
 D Surrogate diluted out

2D

Contract:

SAS No.:

SDG No.: 16265

Level: (low/med) LOW

[illegible]

S1 (NBP) = Nitrobenzene-d5
S2 (FBP) = 2-Fluorobiphenyl
S3 (TPH) = Terphenyl-d14
S4 (PHL) = Phenol-d6
S5 (2FP) = 2-Fluorophenol
S6 (TBP) = 2,4,6-Tribromophenol
S7 (2CP) = 2-Chlorophenol-d4
S8 (DCB) = 1,2-Dichlorobenzene-d4

OC LIMITS

(23-120)
(30-115)
(18-137)
(24-113)
(25-121)
(19-122)
(20-130) (advisory)
(20-130) (advisory)

```
# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out
```

**Matrix Spike/Matrix Spike Duplicate
Blank Spike/Laboratory Control Sample Results**

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix Spike - NYSDEC Sample No.: 7330 (16265-027)

| COMPOUND | SPIKE ADDED (UG/KG) | SAMPLE CONCENTRATION (UG/KG) | MS CONCENTRATION (UG/KG) | MS % REC # | QC. LIMITS REC. |
|--------------------------|---------------------------|------------------------------------|--------------------------------|------------------|-----------------------|
| Phenol | 2800 | 0 | 3600 | 128 * | 26- 90 |
| 2-Chlorophenol | 2800 | 0 | 2600 | 93 | 25-102 |
| 1,4-Dichlorobenzene | 1870 | 0 | 1600 | 86 | 28-104 |
| N-Nitroso-di-n-propylami | 1870 | 0 | 2000 | 107 | 41-126 |
| 1,2,4-Trichlorobenzene | 1870 | 0 | 2200 | 118 * | 38-107 |
| 4-Chloro-3-methylphenol | 2800 | 0 | 2900 | 104 * | 26-103 |
| Acenaphthene | 1870 | 0 | 2100 | 112 | 31-137 |
| 4-Nitrophenol | 2800 | 0 | 1800 | 64 | 11-114 |
| 2,4-Dinitrotoluene | 1870 | 0 | 1200 | 64 | 28- 89 |
| Pentachlorophenol | 2800 | 0 | 0 | 0.0 * | 17-109 |
| Pyrene | 1870 | 1600 | 3400 | 96 | 35-142 |

| COMPOUND | SPIKE ADDED (UG/KG) | MSD CONCENTRATION (UG/KG) | MSD % REC # | % RPD # | QC LIMITS RPD | REC. |
|--------------------------|---------------------------|---------------------------------|-------------------|------------|------------------|--------|
| Phenol | 2790 | 3600 | 129 * | 0 | 35 | 26- 90 |
| 2-Chlorophenol | 2790 | 2500 | 90 | 4 | 50 | 25-102 |
| 1,4-Dichlorobenzene | 1860 | 1600 | 86 | 0 | 27 | 28-104 |
| N-Nitroso-di-n-propylami | 1860 | 2000 | 108 | 0 | 38 | 41-126 |
| 1,2,4-Trichlorobenzene | 1860 | 2300 | 124 * | 5 | 23 | 38-107 |
| 4-Chloro-3-methylphenol | 2790 | 2700 | 97 | 7 | 33 | 26-103 |
| Acenaphthene | 1860 | 2200 | 118 | 5 | 19 | 31-137 |
| 4-Nitrophenol | 2790 | 1900 | 68 | 6 | 50 | 11-114 |
| 2,4-Dinitrotoluene | 1860 | 1200 | 64 | 0 | 47 | 28- 89 |
| Pentachlorophenol | 2790 | 0 | 0.0 * | | 47 | 17-109 |
| Pyrene | 1860 | 3300 | 91 | 5 | 36 | 35-142 |

Column to be used to flag recovery and RPD values with an asterisk.
* Values outside of QC limits.

RPD: 0 out of 11 outside limits
Spike Recovery: 7 out of 22 outside limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix Spike - NYSDEC Sample No.: 7325 (16265-020)

| COMPOUND | SPIKE ADDED (UG/KG) | SAMPLE CONCENTRATION (UG/KG) | MS CONCENTRATION (UG/KG) | MS % REC # | QC. LIMITS REC. |
|--------------------------|---------------------------|------------------------------------|--------------------------------|------------------|-----------------------|
| Phenol | 2880 | 0 | 3600 | 125 * | 26- 90 |
| 2-Chlorophenol | 2880 | 0 | 2500 | 87 | 25-102 |
| 1,4-Dichlorobenzene | 1920 | 0 | 1800 | 94 | 28-104 |
| N-Nitroso-di-n-propylami | 1920 | 0 | 1700 | 88 | 41-120 |
| 1,2,4-Trichlorobenzene | 1920 | 0 | 2100 | 109 * | 38-107 |
| 4-Chloro-3-methylphenol | 2880 | 0 | 2600 | 90 | 26-103 |
| Acenaphthene | 1920 | 0 | 2300 | 120 | 31-137 |
| 4-Nitrophenol | 2880 | 0 | 2000 | 69 | 11-114 |
| 2,4-Dinitrotoluene | 1920 | 0 | 1300 | 68 | 28- 89 |
| Pentachlorophenol | 2880 | 0 | 0 | 0.0 * | 17-109 |
| Pyrene | 1920 | 3200 | 8600 | 281 * | 35-142 |

| COMPOUND | SPIKE ADDED (UG/KG) | MSD CONCENTRATION (UG/KG) | MSD % REC # | % RPD # | QC LIMITS RPD | REC. |
|--------------------------|---------------------------|---------------------------------|-------------------|------------|------------------|--------|
| Phenol | 2880 | 3400 | 118 * | 6 | 35 | 26- 90 |
| 2-Chlorophenol | 2880 | 2600 | 90 | 4 | 50 | 25-102 |
| 1,4-Dichlorobenzene | 1920 | 1800 | 94 | 0 | 27 | 28-104 |
| N-Nitroso-di-n-propylami | 1920 | 1600 | 83 | 6 | 38 | 41-126 |
| 1,2,4-Trichlorobenzene | 1920 | 2100 | 109 * | 0 | 23 | 38-107 |
| 4-Chloro-3-methylphenol | 2880 | 2700 | 94 | 4 | 33 | 26-103 |
| Acenaphthene | 1920 | 2500 | 130 | 8 | 19 | 31-137 |
| 4-Nitrophenol | 2880 | 2000 | 69 | 0 | 50 | 11-114 |
| 2,4-Dinitrotoluene | 1920 | 1300 | 68 | 0 | 47 | 28- 89 |
| Pentachlorophenol | 2880 | 0 | 0.0 * | | 47 | 17-109 |
| Pyrene | 1920 | 10000 | 354 * | 23 | 36 | 35-142 |

Column to be used to flag recovery and RPD values with an asterisk.
* Values outside of QC limits.

RPD: 0 out of 11 outside limits
Spike Recovery: 15 out of 22 outside limits

COMMENTS:

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APPENDIX D

CHEMICAL ANALYSES RESULTS FOR SOIL SAMPLES

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REVE ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.
181 Cedar Hill Street
Marlboro, MA 01752
(508) 460-7600

Page 1 of 1

Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: BLANK.2008.1 REVET Account No: E2008
Client Sample: MBLK 11/20 Location / PO:
Date Sampled: Date Received:
Matrix: Soil Date Run: 12/07/93
Method: 8080 PCB Dilution Factor: 1

Analyst: Donald A. Blaylock Date: 1/5/94
D.A.D'ANJOU, Ph.D.

QC Check: E. Tiegler / 6/ Date: 1/5/94

| | | EPA Method | RESULTS** | |
|------------|--------------|------------------|-----------|----|
| | | Detection Limit | | |
| | | for this sample* | | |
| CAS Number | Compound | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 33 | | ND |
| 11104-28-2 | Aroclor-1221 | 67 | R | ND |
| 11141-16-5 | Aroclor-1232 | 33 | E | ND |
| 53469-21-9 | Aroclor-1242 | 33 | V | ND |
| 12672-29-6 | Aroclor-1248 | 33 | E | ND |
| 11097-69-1 | Aroclor-1254 | 33 | T | ND |
| 11096-82-5 | Aroclor-1260 | 33 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 0

Amount of sample extracted- 30.15 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 98 | 60 - 150 |
| Decachlorobiphenyl | 94 | 60 - 150 |

= Advisory Limits Only

Notes:

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| | | | |
|-------------------|----------------|-------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7336 | REVEN Account No: | E2014 |
| Client Sample: | 01-015 BH, DUP | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/18/93 | Date Received: | 11/18/93 |
| Matrix: | Soil | Date Run: | 12/10/93 |
| Method: | 8080 PCB | Dilution Factor: | 1.1 |

Analyst: *D.A.D. ANJOU* Date: *12/28/93*
D.A.D. ANJOU, Ph.D.

QC Check: *E. T. H. H.* Date: *12/28/93*
✓

| CAS Number | Compound | EPA Method Detection Limit for this sample* | | RESULTS** |
|------------|--------------|---|---|-----------|
| | | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 36.3 | | ND |
| 11104-28-2 | Aroclor-1221 | 73.7 | R | ND |
| 11141-16-5 | Aroclor-1232 | 36.3 | E | ND |
| 53469-21-9 | Aroclor-1242 | 36.3 | V | ND |
| 12672-29-6 | Aroclor-1248 | 36.3 | E | ND |
| 11097-69-1 | Aroclor-1254 | 36.3 | T | ND |
| 11096-82-5 | Aroclor-1260 | 36.3 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 12.3

Amount of sample extracted- 30.16 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 124 | 60 - 150 |
| Decachlorobiphenyl | 403++ | 60 - 150 |

= Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.
Sample contains high concentrations of non-target compounds.

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| | | | |
|-------------------|----------------|------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7338 | REVE Account No: | E2014 |
| Client Sample: | 01-011 BH, DUP | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/18/93 | Date Received: | 11/18/93 |
| Matrix: | Soil | Date Run: | 12/10/93 |
| Method: | 8080 PCB | Dilution Factor: | 1.2 |

Analyst: Donald A. Anjou Date: 12/28/93
D.A.D'ANJOU, Ph.D.

QC Check: [Signature] Date: 12/28/93

| | | EPA Method | RESULTS** | |
|------------|--------------|------------------|-----------|----|
| | | Detection Limit | | |
| CAS Number | Compound | for this sample* | | |
| | | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 39.6 | | ND |
| 11104-28-2 | Aroclor-1221 | 80.4 | R | ND |
| 11141-16-5 | Aroclor-1232 | 39.6 | E | ND |
| 53469-21-9 | Aroclor-1242 | 39.6 | V | ND |
| 12672-29-6 | Aroclor-1248 | 39.6 | E | ND |
| 11097-69-1 | Aroclor-1254 | 39.6 | T | ND |
| 11096-82-5 | Aroclor-1260 | 39.6 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 20.4

Amount of sample extracted- 30.28 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 104 | 60 - 150 |
| Decachlorobiphenyl | 454++ | 60 - 150 |

= Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.
Sample contains high concentrations of non-target compounds.

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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: BLANK.2014.1 REVET Account No: E2014
Client Sample: MBLK 11/29 Location / PO:
Date Sampled: Date Received:
Matrix: Soil Date Run: 12/09/93
Method: 8080 PCB Dilution Factor: 1

Analyst: D.A.D'ANJOU Date: 12/28/93
D.A.D'ANJOU, Ph.D.

QC Check: [Signature] Date: 12/28/93

EPA Method
Detection Limit
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | | % Recovery |
|------------|--------------|-------|---|------------|
| 12674-11-2 | Aroclor-1016 | 33 | | ND |
| 11104-28-2 | Aroclor-1221 | 67 | R | ND |
| 11141-16-5 | Aroclor-1232 | 33 | E | ND |
| 53469-21-9 | Aroclor-1242 | 33 | V | ND |
| 12672-29-6 | Aroclor-1248 | 33 | E | ND |
| 11097-69-1 | Aroclor-1254 | 33 | T | ND |
| 11096-82-5 | Aroclor-1260 | 33 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 0

Amount of sample extracted- 30 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 114 | 60 - 150 |
| Decachlorobiphenyl | 90 | 60 - 150 |

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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: BLANK.1997 REVET Account No: E1997
Client Sample: MBLK 11/20 Location / PO: WORCESTER ANG / P.N. 1315-113
Date Sampled: Date Received:
Matrix: Soil Date Run: 12/07/93
Method: 8080 PCB Dilution Factor: 1

Analyst: D.A.D'ANJOU, Ph.D. Date: 12/10/93

QC Check: E. Taylor Date: 12/10/93

| | | EPA Method Detection Limit for this sample* | RESULTS** | |
|------------|--------------|---|-----------|----|
| CAS Number | Compound | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 33 | | ND |
| 11104-28-2 | Aroclor-1221 | 67 | R | ND |
| 11141-16-5 | Aroclor-1232 | 33 | E | ND |
| 53469-21-9 | Aroclor-1242 | 33 | V | ND |
| 12672-29-6 | Aroclor-1248 | 33 | E | ND |
| 11097-69-1 | Aroclor-1254 | 33 | T | ND |
| 11096-82-5 | Aroclor-1260 | 33 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 0

Amount of sample extracted- 30.15 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 98 | 60 - 150 |
| Decachlorobiphenyl | 94 | 60 - 150 |

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| | | | |
|-------------------|----------------|------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7251 | REVE Account No: | E2008 |
| Client Sample: | FIELD BLANK #1 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/17/93 | Date Received: | 11/17/93 |
| Matrix: | Water | Date Run: | 12/05/93 |
| Method: | 608 PCB | Dilution Factor: | 1 |

Analyst: D.A.D'ANJOU Date: 12/10/93
D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 12/13/93

| | | EPA Method | RESULTS |
|------------|--------------|------------------|---------|
| | | Detection Limit | |
| | | for this sample* | |
| CAS Number | Compound | ug/L | ug/L |
| 12674-11-2 | Aroclor-1016 | 1 | ND |
| 11104-28-2 | Aroclor-1221 | 2 | R ND |
| 11141-16-5 | Aroclor-1232 | 1 | E ND |
| 53469-21-9 | Aroclor-1242 | 1 | V ND |
| 12672-29-6 | Aroclor-1248 | 1 | E ND |
| 11097-69-1 | Aroclor-1254 | 1 | T ND |
| 11096-82-5 | Aroclor-1260 | 1 | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

Amount of sample extracted- 1000 ml.

| Compound | Surrogate % Recovery | Acceptable | |
|----------------------|----------------------|-------------|----|
| | | Water Limit | ## |
| Tetrachloro-m-xylene | 98 | 60 - 150 | |
| Decachlorobiphenyl | 93 | 60 - 150 | |

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| | | | |
|-------------------|----------------|------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7252 | REVE Account No: | E2008 |
| Client Sample: | FIELD BLANK #2 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/17/93 | Date Received: | 11/17/93 |
| Matrix: | Water | Date Run: | 12/06/93 |
| Method: | 608 PCB | Dilution Factor: | 1 |

Analyst: *D.A.D'Anjou* Date: *12/13/93*
D.A.D'ANJOU, Ph.D.

QC Check: *E. Taylor* Date: *12/13/93*

| Y | | EPA Method | RESULTS |
|------------|--------------|------------------|---------|
| | | Detection Limit | |
| | | for this sample* | |
| CAS Number | Compound | ug/L | ug/L |
| 12674-11-2 | Aroclor-1016 | 1 | ND |
| 11104-28-2 | Aroclor-1221 | 2 | R ND |
| 11141-16-5 | Aroclor-1232 | 1 | E ND |
| 53469-21-9 | Aroclor-1242 | 1 | V ND |
| 12672-29-6 | Aroclor-1248 | 1 | E ND |
| 11097-69-1 | Aroclor-1254 | 1 | T ND |
| 11096-82-5 | Aroclor-1260 | 1 | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

Amount of sample extracted- 1000 ml.

| Compound | Surrogate % Recovery | Acceptable | |
|----------------------|----------------------|-------------|----|
| | | Water Limit | ## |
| Tetrachloro-m-xylene | 90 | 60 - 150 | |
| Decachlorobiphenyl | 80 | 60 - 150 | |

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| | | | |
|-------------------|--------------------|-------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7253 | REVEt Account No: | E2008 |
| Client Sample: | EQUIPMENT BLANK #1 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/17/93 | Date Received: | 11/17/93 |
| Matrix: | Water | Date Run: | 12/06/93 |
| Method: | 608 PCB | Dilution Factor: | 1 |

Analyst: D.A.D'Anjou Date: 12/1/93
D.A.D'ANJOU, Ph.D.

QC Check: E. Tardif Date: 12/13/93

EPA Method
Detection Limit
for this sample*

RESULTS

| CAS Number | Compound | ug/L | | ug/L |
|------------|--------------|------|---|------|
| 12674-11-2 | Aroclor-1016 | 1 | | ND |
| 11104-28-2 | Aroclor-1221 | 2 | R | ND |
| 11141-16-5 | Aroclor-1232 | 1 | E | ND |
| 53469-21-9 | Aroclor-1242 | 1 | V | ND |
| 12672-29-6 | Aroclor-1248 | 1 | E | ND |
| 11097-69-1 | Aroclor-1254 | 1 | T | ND |
| 11096-82-5 | Aroclor-1260 | 1 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

Amount of sample extracted- 1000 ml.

| Compound | Surrogate % Recovery | Acceptable Water Limit | ## |
|----------------------|----------------------|---------------------------|----|
| Tetrachloro-m-xylene | 94 | 60 - 150 | |
| Decachlorobiphenyl | 64 | 60 - 150 | |

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| | | | |
|-------------------|--------------------|-------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7254 | REVEN Account No: | E2008 |
| Client Sample: | EQUIPMENT BLANK #2 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/17/93 | Date Received: | 11/17/93 |
| Matrix: | Water | Date Run: | 12/06/93 |
| Method: | 608 PCB | Dilution Factor: | 1 |

Analyst: D.A. D'ANJOU Date: 12/13/93
D.A. D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 12/13/93

| | | EPA Method | RESULTS |
|------------|--------------|------------------|---------|
| | | Detection Limit | |
| | | for this sample* | |
| CAS Number | Compound | ug/L | ug/L |
| 12674-11-2 | Aroclor-1016 | 1 | ND |
| 11104-28-2 | Aroclor-1221 | 2 | R ND |
| 11141-16-5 | Aroclor-1232 | 1 | E ND |
| 53469-21-9 | Aroclor-1242 | 1 | V ND |
| 12672-29-6 | Aroclor-1248 | 1 | E ND |
| 11097-69-1 | Aroclor-1254 | 1 | T ND |
| 11096-82-5 | Aroclor-1260 | 1 | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

Amount of sample extracted- 1000 ml.

| Compound | Surrogate % Recovery | Acceptable | |
|----------------------|----------------------|-------------|----|
| | | Water Limit | ## |
| Tetrachloro-m-xylene | 95 | 60 - 150 | |
| Decachlorobiphenyl | 78 | 60 - 150 | |

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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: QC.7340MS REVET Account No: E2014
Client Sample: 01-007 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113
Date Sampled: 11/18/93 Date Received: 11/18/93
Matrix: Soil Date Run: 12/10/93
Method: 8080 PCB Dilution Factor: 1.1
=====

Analyst: Donald A. D'Anjou Date: 12/28/93
D.A.D'ANJOU, Ph.D.

QC Check: Steph Date: 12/28/93
Y

| | | EPA Method | RESULTS** |
|------------|--------------|-----------------|------------|
| | | Detection Limit | |
| CAS Number | Compound | ug/kg | % Recovery |
| 12674-11-2 | Aroclor-1016 | 36.3 | NA |
| 11104-28-2 | Aroclor-1221 | 73.7 | R NA |
| 11141-16-5 | Aroclor-1232 | 36.3 | E NA |
| 53469-21-9 | Aroclor-1242 | 36.3 | V NA |
| 12672-29-6 | Aroclor-1248 | 36.3 | E NA |
| 11097-69-1 | Aroclor-1254 | 36.3 | T NA |
| 11096-82-5 | Aroclor-1260 | 36.3 | 84 |

NA- Not Applicable

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 11

Amount of sample extracted- 30.33 g.

| Compound | Surrogate % Recovery | Acceptable | |
|----------------------|----------------------|------------|----|
| | | Soil Limit | ## |
| Tetrachloro-m-xylene | 111 | 60 - 150 | |
| Decachlorobiphenyl | 123 | 60 - 150 | |

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Notes:

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| | | | |
|-------------------|------------------|------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | QC.7340MSD | REVE Account No: | E2014 |
| Client Sample: | 01-007 BH, INT 1 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/18/93 | Date Received: | 11/18/93 |
| Matrix: | Soil | Date Run: | 12/10/93 |
| Method: | 8080 PCB | Dilution Factor: | 1.1 |

Analyst: Donald A. Allard Date: 12/08/93
D.A.D'ANJOU, Ph.D.

QC Check: Y Date: 12/18/93

| CAS Number | Compound | EPA Method Detection Limit for this sample* | | RESULTS** |
|------------|--------------|---|---|------------|
| | | ug/kg | | % Recovery |
| 12674-11-2 | Aroclor-1016 | 36.3 | | NA |
| 11104-28-2 | Aroclor-1221 | 73.7 | R | NA |
| 11141-16-5 | Aroclor-1232 | 36.3 | E | NA |
| 53469-21-9 | Aroclor-1242 | 36.3 | V | NA |
| 12672-29-6 | Aroclor-1248 | 36.3 | E | NA |
| 11097-69-1 | Aroclor-1254 | 36.3 | T | NA |
| 11096-82-5 | Aroclor-1260 | 36.3 | | 82 |

NA- Not Applicable

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 11

Amount of sample extracted- 30.46 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 111 | 60 - 150 |
| Decachlorobiphenyl | 107 | 60 - 150 |

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| | | | |
|-------------------|----------------|------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7341 | REVE Account No: | E2014 |
| Client Sample: | 01-007 BH, DUP | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/18/93 | Date Received: | 11/18/93 |
| Matrix: | Soil | Date Run: | 12/10/93 |
| Method: | 8080 PCB | Dilution Factor: | 1.1 |

Analyst: D.A.D'ANJOU Date: 12/28/93
D.A.D'ANJOU, Ph.D.

QC Check: [Signature] Date: 12/28/93

| | | EPA Method | RESULTS** | |
|------------|--------------|------------------|-----------|----|
| | | Detection Limit | | |
| | | for this sample* | | |
| CAS Number | Compound | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 36.3 | | ND |
| 11104-28-2 | Aroclor-1221 | 73.7 | R | ND |
| 11141-16-5 | Aroclor-1232 | 36.3 | E | ND |
| 53469-21-9 | Aroclor-1242 | 36.3 | V | ND |
| 12672-29-6 | Aroclor-1248 | 36.3 | E | ND |
| 11097-69-1 | Aroclor-1254 | 36.3 | T | ND |
| 11096-82-5 | Aroclor-1260 | 36.3 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 11.2

Amount of sample extracted- 30.07 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit | ## |
|----------------------|----------------------|--------------------------|----|
| Tetrachloro-m-xylene | 111 | 60 - 150 | |
| Decachlorobiphenyl | 115 | 60 - 150 | |

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Client: OPTECH
Revet Sample No.: QC.7335MS
Client Sample: 01-015 BH, INT 1
Date Sampled: 11/18/93
Matrix: Soil
Method: 8080 PCB

Contact: JOHN MORRIS
REVET Account No: E2014
Location / PO: WORCESTER ANG / P.N. 1315-113
Date Received: 11/18/93
Date Run: 12/10/93
Dilution Factor: 1.2

Analyst: Donald A. D'Anjou Date: 12/25/93
D.A.D'ANJOU, Ph.D.

QC Check: 1/4/94 Date: 1/3/94

| CAS Number | Compound | EPA Method Detection Limit for this sample* | | RESULTS** |
|------------|--------------|---|---|-----------|
| | | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 39.6 | | NA |
| 11104-28-2 | Aroclor-1221 | 80.4 | R | NA |
| 11141-16-5 | Aroclor-1232 | 39.6 | E | NA |
| 53469-21-9 | Aroclor-1242 | 39.6 | V | NA |
| 12672-29-6 | Aroclor-1248 | 39.6 | E | NA |
| 11097-69-1 | Aroclor-1254 | 39.6 | T | NA |
| 11096-82-5 | Aroclor-1260 | 39.6 | | ND # |

NA- Not Applicable

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 14.3

Amount of sample extracted- 30.39 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 108 | 60 - 150 |
| Decachlorobiphenyl | 388++ | 60 - 150 |

= Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.
= High results due to high concentration of non-target compounds.

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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: QC.7335MSD REVET Account No: E2014
Client Sample: 01-015 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113
Date Sampled: 11/18/93 Date Received: 11/18/93
Matrix: Soil Date Run: 12/10/93
Method: 8080 PCB Dilution Factor: 1.2

Analyst: D.A.D'ANJOU, Ph.D. Date: 12/28/93

QC Check: 2/28/93 Date: 12/28/93

| CAS Number | Compound | EPA Method Detection Limit for this sample* | | RESULTS** |
|------------|--------------|---|---|-----------|
| | | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 39.6 | | NA |
| 11104-28-2 | Aroclor-1221 | 80.4 | R | NA |
| 11141-16-5 | Aroclor-1232 | 39.6 | E | NA |
| 53469-21-9 | Aroclor-1242 | 39.6 | V | NA |
| 12672-29-6 | Aroclor-1248 | 39.6 | E | NA |
| 11097-69-1 | Aroclor-1254 | 39.6 | T | NA |
| 11096-82-5 | Aroclor-1260 | 39.6 | | ND # |

NA- Not Applicable

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 14.3

Amount of sample extracted- 30.03 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 105 | 60 - 150 |
| Decachlorobiphenyl | 309++ | 60 - 150 |

= Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.

#=Not detected due to the high concentration of non-target compounds.

Revet Environmental & Analytical Laboratories

REVET Account Number: E2014

Metals Summary Data Package
for samples collected November 16, 17 & 18, 1993



REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

DEP Certification MA #082

(508) 460-7600

Page 1

Client: OPTECH
REVET Account No.: E2014
Date Received: 11/18/93
Matrix: Water

Contact: JOHN MORRIS
Location / PO: WORCESTER ANG/P.N. 1315-113
Metals prep date: 11/19/93
Mercury prep date: 12/02/93

Analyst: D. D'ANJOU, Ph.D.

Date: 1/24/94

QC Dept: E L Taylor

Date: 1/24/94

Total Metals, mg/L

| REVET ID | 7353 | 7353D | 7354 | BLANK.2014 | SPIKE.7354 | Method | |
|--------------|-----------------|-----------------|----------------|------------|------------|----------------|--------|
| Client ID | EQUIPMENT BLANK | EQUIPMENT BLANK | FIELD BLANK #3 | LABBLK | % RECOVERY | Detection | |
| Date Sampled | 11/18/93 | 11/18/93 | 11/18/93 | | | Limit, mg/L | Method |
| Antimony | <0.1 | <0.1 | <0.1 | <0.1 | 100 | 0.1 (0.03) | 200.7 |
| Arsenic | <0.004 | <0.004 | <0.004 | <0.004 | 96.5 | 0.004 (0.002) | 206.2 |
| Beryllium | <0.001 | <0.001 | <0.001 | <0.001 | 105 | 0.001 - | 200.7 |
| Cadmium | <0.004 | <0.004 | <0.004 | <0.004 | 92.2 | 0.004 (0.0006) | 200.7 |
| Chromium | <0.009 | <0.009 | <0.009 | <0.009 | 104 | 0.009 - | 200.7 |
| Copper | <0.003 | <0.003 | <0.003 | 0.006 | 100 | 0.003 - | 200.7 |
| Lead | <0.001 | <0.001 | <0.001 | 0.004 | 104 | 0.001 - | 239.2 |
| Mercury | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 119 | 0.0002 - | 245.1 |
| Nickel | <0.02 | <0.02 | <0.02 | <0.02 | 99.5 | 0.02 (0.01) | 200.7 |
| Selenium | <0.005 | <0.005 | <0.005 | <0.005 | 95.3 | 0.005 (0.002) | 270.2 |
| Silver | <0.004 | <0.004 | <0.004 | <0.004 | 106 | 0.004 - | 200.7 |
| Thallium | <0.002 | <0.002 | <0.002 | <0.002 | 97.0 | 0.002 - | 279.2 |
| Zinc | 0.008 | <0.005 | 0.009 | <0.005 | 106 | 0.005 - | 200.7 |

Samples with identifications ending with D or Dup are duplicates.

Notes:

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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Marlboro, MA 01752
DEP Certification MA #082
(508) 460-7600

Page 1

Client: OPTECH
REVET Account No.: E2008
Date Received: 11/17/93
Matrix: Water

Contact: JOHN MORRIS
Location / PO: WORCESTER ANG/P.N. 1315-113
Metals prep date: 11/19/93
Mercury prep date: 12/02/93

Analyst: D. D'ANJOU, Ph.D.

Date: 1/14/94

QC Dept: E L Taylor

Date: 1/24/94

Total Metals, mg/L

| REVET ID | 7266 | 7266D | 7267 | 7268 | Method | |
|--------------|----------------|----------------|----------------|-----------------|-------------|--------|
| Client ID | FIELD BLANK #1 | FIELD BLANK #1 | FIELD BLANK #2 | EQUIPMENT BLANK | Detection | |
| Date Sampled | 11/17/93 | 11/17/93 | 11/17/93 | 11/17/93 | Limit, mg/L | Method |
| Antimony | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 200.7 |
| Arsenic | <0.004 | <0.004 | <0.004 | <0.004 | 0.004 | 206.2 |
| Beryllium | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | 200.7 |
| Cadmium | <0.004 | <0.004 | <0.004 | <0.004 | 0.004 | 200.7 |
| Chromium | <0.009 | <0.009 | <0.009 | <0.009 | 0.009 | 200.7 |
| Copper | 0.010 | 0.007 | 0.008 | 0.003 | 0.003 | 200.7 |
| Lead | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | 239.2 |
| Mercury | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.0002 | 245.1 |
| Nickel | <0.02 | <0.02 | <0.02 | <0.02 | 0.02 | 200.7 |
| Selenium | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 270.2 |
| Silver | <0.004 | <0.004 | <0.004 | <0.004 | 0.004 | 200.7 |
| Thallium | <0.002 | <0.002 | <0.002 | <0.002 | 0.002 | 279.2 |
| Zinc | <0.005 | <0.005 | 0.007 | 0.006 | 0.005 | 200.7 |

Samples with identifications ending with D or Dup are duplicates.

Notes:

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.
181 Cedar Hill Street
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(508) 460-7600

Page 2

Client: OPTECH
REVET Account No.: E2008
Date Received: 11/17/93
Matrix: Water

Contact: JOHN MORRIS
Location / PO: WORCESTER ANG/P.N. 1315-113
Metals prep date: 11/19/93
Mercury prep date: 12/02/93

Analyst: D. D'ANJOU, Ph.D.

Date: 1/24/94

QC Dept: E Taylor

Date: 1/24/94

Total Metals, mg/L

| REVET ID | 7269 | BLANK.2008 | SPIKE.7269 | Method | |
|--------------|-----------------|------------|------------|-------------|--------|
| Client ID | EQUIPMENT BLANK | LABBLK | % RECOVERY | Detection | |
| Date Sampled | 11/17/93 | | mg/L | Limit, mg/L | Method |
| Antimony | <0.1 | <0.1 | 100 | 0.1 | 200.7 |
| Arsenic | <0.004 | <0.004 | 101 | 0.004 | 206.2 |
| Beryllium | <0.001 | <0.001 | 106 | 0.001 | 200.7 |
| Cadmium | <0.004 | <0.004 | 103 | 0.004 | 200.7 |
| Chromium | <0.009 | <0.009 | 102 | 0.009 | 200.7 |
| Copper | 0.008 | <0.003 | 98.7 | 0.003 | 200.7 |
| Lead | <0.001 | 0.002 | 101 | 0.001 | 239.2 |
| Mercury | <0.0002 | <0.0002 | 106 | 0.0002 | 245.1 |
| Nickel | <0.02 | <0.02 | 103 | 0.02 | 200.7 |
| Selenium | <0.005 | <0.005 | 95.8 | 0.005 | 270.2 |
| Silver | <0.004 | <0.004 | 105 | 0.004 | 200.7 |
| Thallium | <0.002 | <0.002 | 90.5 | 0.002 | 279.2 |
| Zinc | 0.009 | <0.005 | 103 | 0.003 | 200.7 |

003

Samples with identifications ending with D or Dup are duplicates.

Notes:

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.
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 Marlboro, MA 01752
 DEP Certification MA #082
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Page 1

Client: OPTECH Contact: JOHN MORRIS
 REVE Account No.: E2014 Location / PO: WORCESTER ANG/P.N. 1315-113
 Date Received: 11/18/93 Metals prep date: 11/19/93
 Matrix: Soil Mercury prep date: 12/02/93

Analyst: D. D'ANJOU, Ph.D. Date: 1/25/94

QC Dept: E. Taylor Date: 1/25/94

Total Metals, mg/Kg **

| REVE ID | 7345 | 7345D | 7346 | 7347 | Method | |
|--------------|----------------|----------------|----------------|----------------|--------------|--------|
| Client ID | 01-015 BH, INT | 01-015 BH, INT | 01-015 BH, DUP | 01-011 BH, INT | Detection | |
| Date Sampled | 11/18/93 | 11/18/93 | 11/18/93 | 11/18/93 | Limit, mg/Kg | Method |
| % Solid | 85.7 | 85.7 | 87.7 | 78.3 | | |
| Antimony | <10 | <10 | <10 | <10 | 10 3.0 | 200.7 |
| Arsenic | 24 | 24 | 39 47% RPN | 29 | 0.4 ✓ | 206.2 |
| Beryllium | 0.5 | 0.5 | 0.5 | 0.6 | 0.1 ✓ | 200.7 |
| Cadmium | 1.4 | 1.2 | 1.2 | <0.5 | 0.4 ✓ | 200.7 |
| Chromium | 29.0 | 22.9 | 24.8 | 29.7 | 0.9 -5 | 200.7 |
| Copper | 30.3 | 35.5 | 39.1 | 53.1 | 0.3 ✓ | 200.7 |
| Lead | 100 | 80 | 90 | 140 | 5 1.5 | 200.7 |
| Mercury | 0.3 | 0.4 | <0.1 | 0.3 | 0.1 -2.5 | 245.5 |
| Nickel | 18 | 20 | 17 | 23 | 2 ✓ | 200.7 |
| Selenium | <0.6 | <0.5 | <0.6 | <0.6 | 0.5 ✓ | 270.2 |
| Silver | <0.4 | <0.4 | <0.4 | <0.5 | 0.4 ✓ | 200.7 |
| Thallium | 0.2 | 0.3 | 0.2 | 0.5 | 0.1 ✓ | 279.2 |
| Zinc | 131 | 133 | 121 | 123 | 0.3 ✓ | 200.7 |

Samples with identifications ending with D or Dup are duplicates.

** Data reported as dry weight.

Sample detection limit = method detecton limit * 100 / percent solid.

Notes:

REJET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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Client: OPTECH Contact: JOHN MORRIS
REJET Account No.: E2014 Location / PO: WORCESTER ANG/P.N. 1315-113
Date Received: 11/18/93 Metals prep date: 11/19/93
Matrix: Soil Mercury prep date: 12/02/93

Analyst: D. D'ANJOU Date: 1/25/94
D. D'ANJOU, Ph.D.

QC Dept: E Taylor Date: 1/25/94

Total Metals, mg/Kg **

| REJET ID | 7348 | 7349 | BLANK.2014.1 | SPIKE.7345 | Method | |
|--------------|----------------|----------------|--------------|------------|--------------|--------|
| Client ID | 01-011 BH, DUP | 01-009 BH, INT | LABBLK | % RECOVERY | Detection | |
| Date Sampled | 11/18/93 | 11/18/93 | mg/L | | Limit, mg/Kg | Method |
| % Solid | 79.6 | 80 | | | | |
| Antimony | <10 | <10 | <10 | 10# | 10 | 200.7 |
| Arsenic | 26 | 9.3 | <0.4 | 84.4 | 0.4 | 206.2 |
| Beryllium | 0.6 | 0.3 | <0.1 | 94.5 | 0.1 | 200.7 |
| Cadmium | 2.0 | 2.1 | <0.4 | 96.9 | 0.4 | 200.7 |
| Chromium | 22.0 | 1800 | 1.2 | 103 | 0.9 | 200.7 |
| Copper | 43.5 | 177 | <0.3 | 100 | 0.3 | 200.7 |
| Lead | 150 | 240 | 0.2+ | 74.2# | 5 | 200.7 |
| Mercury | 0.2 | 0.1 | <0.1 | 131# | 0.1 | 245.5 |
| Nickel | 17 | 2 | <2 | 79.2 | 2 | 200.7 |
| Selenium | <0.6 | <0.6 | <0.5 | 104 | 0.5 | 270.2 |
| Silver | <0.5 | <0.5 | <0.4 | 95.8 | 0.4 | 200.7 |
| Thallium | 0.3 | 0.1 | <0.1 | 124 | 0.1 | 279.2 |
| Zinc | 135 | 108 | 1.2 | 84.7 | 0.3 | 200.7 |

Samples with identifications ending with D or Dup are duplicates.

** Data reported as dry weight.

Sample detection limit = method detection limit * 100 / percent solid.

Notes:

= Matrix interferences observed for this element.

+ = Method 239.2, MDL = 0.1 mg/Kg.

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street
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Page 1

Client: OPTECH
REVET Account No.: E2014
Date Received: 11/18/93
Matrix: Soil

Contact: JOHN MORRIS
Location / PO: WORCESTER ANG/P.N. 1315-113
Metals prep date: 11/19/93
Mercury prep date: 12/02/93

Analyst:

D. D'Anjou
D. D'ANJOU, Ph.D.

Date:

1/25/94

QC Dept:

E. Taylor

Date:

1/25/94

Total Metals, mg/Kg **

| REVE ID | 7350 | 7350D | 7351 | Method | |
|--------------|----------------|----------------|----------------|--------------|--------|
| Client ID | 01-007 BH, INT | 01-007 BH, INT | 01-007 BH, DUP | Detection | |
| Date Sampled | 11/18/93 | 11/18/93 | 11/18/93 | Limit, mg/Kg | Method |
| % Solid | 89 | 89 | 88.8 | | |
| Antimony | <10 | <10 | <10 | 10 | 200.7 |
| Arsenic | 20 | 21 | 12 | 0.4 | 206.2 |
| Beryllium | 0.7 | 0.6 | 0.3 | 0.1 | 200.7 |
| Cadmium | 1.0 | 0.4 | 0.7 | 0.4 | 200.7 |
| Chromium | 35.2 | 28.9 | 17.2 | 0.9 | 200.7 |
| Copper | 26.0 | 28.7 | 11.9 | 0.3 | 200.7 |
| Lead | 140 | 90 | 40 | 5 | 200.7 |
| Mercury | <0.1 | <0.1 | <0.1 | 0.1 | 245.5 |
| Nickel | 22 | 20 | 11.7 | 2 | 200.7 |
| Selenium | <0.5 | <0.6 | <0.5 | 0.5 | 270.2 |
| Silver | <0.4 | <0.4 | <0.4 | 0.4 | 200.7 |
| Thallium | 0.2 | 0.3 | 0.2 | 0.1 | 279.2 |
| Zinc | 81.1 | 73.6 | 49.2 | 0.3 | 200.7 |

Samples with identifications ending with D or Dup are duplicates.

** Data reported as dry weight.

Sample detection limit = method detection limit * 100 / percent solid.

Notes:

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street
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DEP Certification MA #082
(508) 460-7600

Page 2

Client: OPTECH
REVET Account No.: E2014
Date Received: 11/18/93
Matrix: Soil

Contact: JOHN MORRIS
Location / PO: WORCESTER ANG/P.N. 1315-113
Metals prep date: 11/19/93
Mercury prep date: 12/02/93

Analyst: Donald A. Allard
D. D'ANJOU, Ph.D.

Date: 1/25/94

QC Dept: E L Taylor

Date: 1/25/94

Total Metals, mg/Kg **

| REVE ID | 7352 | BLANK.2014.2 | SPIKE.7350 | Method | |
|--------------|----------------|--------------|------------|--------------|--------|
| Client ID | 01-007 BH, INT | LABBLK | % RECOVERY | Detection | |
| Date Sampled | 11/18/93 | | mg/L | Limit, mg/Kg | Method |
| % Solid | 87.5 | | | | |
| Antimony | <10 | <10 | 20# | 10 | 200.7 |
| Arsenic | 25 | <0.4 | 95.0 | 0.4 | 206.2 |
| Beryllium | 0.8 | <0.1 | 94.9 | 0.1 | 200.7 |
| Cadmium | 0.4 | <0.4 | 93.2 | 0.4 | 200.7 |
| Chromium | 35.0 | 1.2 | 98.7 | 0.9 | 200.7 |
| Copper | 25.4 | <0.3 | 94.4 | 0.3 | 200.7 |
| Lead | 60 | 0.2+ | 35# | 5 | 200.7 |
| Mercury | <0.1 | <0.1 | 106 | 0.1 | 245.5 |
| Nickel | 27 | <2 | 66.1# | 2 | 200.7 |
| Selenium | <0.6 | <0.5 | 73.0# | 0.5 | 270.2 |
| Silver | <0.4 | <0.4 | 97.2 | 0.4 | 200.7 |
| Thallium | 0.2 | <0.1 | 130# | 0.1 | 279.2 |
| Zinc | 68.5 | 1.2 | 87.4 | 0.3 | 200.7 |

Samples with identifications ending with D or Dup are duplicates.

** Data reported as dry weight.

Sample detection limit = method detection limit * 100 / percent solid.

Notes:

= Matrix interferences observed for this element.

+ = Method 239.2, MDL = 0.1 mg/Kg.

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

DEP Certification MA #082

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Page 1

Client: OPTECH
REVET Account No.: E2008
Date Received: 11/17/93
Matrix: Soil

Contact: JOHN MORRIS
Location / PO: WORCESTER ANG/P.N. 1315-113
Metals prep date: 11/19/93
Mercury prep date: 12/02/93

Analyst: Honell B. D'Anjou Date: 1/25/94
D. D'ANJOU, Ph.D.

QC Dept: E. Taylor Date: 1/25/94

Total Metals, mg/Kg **

| REVET ID | 7255 | 7256 | 7257 | 7258 | 7259 | Method | |
|--------------|----------------|----------------|----------------|----------------|----------------|--------------|--------|
| Client ID | 01-012 BH, INT | 01-014 BH, INT | 01-013 BH, INT | 01-006 BH, INT | 01-006 BH, INT | Detection | |
| Date Sampled | 11/17/93 2 | 11/17/93 | 11/17/93 | 11/17/93 | 11/17/93 | Limit, mg/Kg | Method |
| % Solid | 90.3 | 90.8 | 86.4 | 86.7 | 73.1 | | |
| Antimony | <10 | <10 | <10 | <10 | <10 | 10 | 200.7 |
| Arsenic | 21 | 9.8 | 24 | 18 | 34 | 0.4 | 206.2 |
| Beryllium | 0.3 | 0.1 | 0.7 | 0.5 | 1 | 0.1 | 200.7 |
| Cadmium | <0.4 | <0.4 | 5.7 | <0.4 | 0.5 | 0.4 | 200.7 |
| Chromium | 26.6 | 16.1 | 29.6 | 24.6 | 18.7 | 0.9 | 200.7 |
| Copper | 22.3 | 14.9 | 84.2 | 31.5 | 24.3 | 0.3 | 200.7 |
| Lead | 30 | 5.3+ | 210 | 110 | 40 | 5 | 200.7 |
| Mercury | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 245.5 |
| Nickel | 20 | 12 | 26 | 21 | 10 | 2 | 200.7 |
| Selenium | <0.5 | <0.5 | <0.5 | <0.5 | <0.7 | 0.5 | 270.2 |
| Silver | <0.4 | <0.4 | <0.4 | <0.4 | <0.5 | 0.4 | 200.7 |
| Thallium | 0.2 | <0.1 | 0.4 | 0.2 | 0.4 | 0.1 | 279.2 |
| Zinc | 44.7 | 66.4 | 185 | 96.9 | 65.5 | 0.3 | 200.7 |

Samples with identifications ending with D or Dup are duplicates.

** Data reported as dry weight.

Sample detection limit = method detection limit * 100 / percent solid.

Notes:

+ = Method 239.2, MDL = 0.1 mg/Kg.

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

DEP Certification MA #082

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Page 2

Client: OPTECH

Contact: JOHN MORRIS

REVET Account No.: E2008

Location / PO: WORCESTER ANG/P.N. 1315-113

Date Received: 11/17/93

Metals prep date: 11/19/93

Matrix: Soil

Mercury prep date: 12/02/93

Analyst: D. D'ANJOU, Ph.D.

Date: 1/25/94

QC Dept: E. Taylor

Date: 1/25/94

Total Metals, mg/Kg **

| REVET ID | 7260 | 7261 | 7262 | 7263 | Method | |
|--------------|----------------|----------------|----------------|----------------|--------------|--------|
| Client ID | 01-005 BH, INT | 01-005 BH, INT | 01-010 BH, INT | 01-008 BH, INT | Detection | |
| Date Sampled | 11/17/93 | 11/17/93 | 11/17/93 | 11/17/93 | Limit, mg/Kg | Method |
| % Solid | 93.3 | 81 | 57.2 | 42.8 | | |
| Antimony | <10 | <10 | <20 | <20 | 10 | 200.7 |
| Arsenic | 16 | 20 | 49 | 30 | 0.4 | 206.2 |
| Beryllium | 0.2 | 0.7 | 0.5 | 1 | 0.1 | 200.7 |
| Cadmium | <0.4 | <0.5 | 1.0 | 5.5 | 0.4 | 200.7 |
| Chromium | 15.5 | 41.7 | 184 | 549 | 0.9 | 200.7 |
| Copper | 48.0 | 155 | 46.1 | 87.5 | 0.3 | 200.7 |
| Lead | 5.2+ | 660 | 200 | 660 | 5 | 200.7 |
| Mercury | <0.1 | 0.3 | <0.2 | <0.2 | 0.1 | 245.5 |
| Nickel | 13 | 22 | 10 | 20 | 2 | 200.7 |
| Selenium | <0.5 | <0.6 | 1 | <1 | 0.5 | 270.2 |
| Silver | <0.4 | <0.5 | <0.7 | <0.8 | 0.4 | 200.7 |
| Thallium | 0.1 | 0.5 | 1 | 0.2 | 0.1 | 279.2 |
| Zinc | 38.0 | 225 | 86.9 | 414 | 0.3 | 200.7 |

Samples with identifications ending with D or Dup are duplicates.

** Data reported as dry weight.

Sample detection limit = method detection limit * 100 / percent solid.

Notes:

+ = Method 239.2, MDL = 0.1 mg/Kg.

Client: OPTECH
REVEAL Account No.: E2008
Date Received: 11/17/93
Matrix: Soil

Contact: JOHN MORRIS
Location / PO: WORCESTER ANG/P.N. 1315-113
Metals prep date: 11/19/93
Mercury prep date: 12/02/93

Analyst: Donald A. H. H. H. Date: 1/25/94
D. D'ANJOU, Ph.D.

QC Dept: E. Taylor Date: 1/25/94

Total Metals, mg/Kg **

| REVEAL ID | 7264 | 7265 | BLANK.2008.1 | Method | |
|--------------|----------------|----------------|--------------|--------------|--------|
| Client ID | 01-004 BH, INT | 01-004 BH, INT | LABBLK | Detection | |
| Date Sampled | 11/17/93 | 11/17/93 | mg/L | Limit, mg/Kg | Method |
| % Solid | 89.3 | 78.9 | | | |
| Antimony | <10 | <10 | <10 | 10 | 200.7 |
| Arsenic | 35 | 25 | <0.4 | 0.4 | 206.2 |
| Beryllium | 0.5 | 0.6 | <0.1 | 0.1 | 200.7 |
| Cadmium | <0.4 | 0.6 | <0.4 | 0.4 | 200.7 |
| Chromium | 26.2 | 23.9 | 1.2 | 0.9 | 200.7 |
| Copper | 47.6 | 94.3 | <0.3 | 0.3 | 200.7 |
| Lead | 130 | 530 | 0.2+ | 5 | 200.7 |
| Mercury | 0.3 | 1.2 | <0.1 | 0.1 | 245.5 |
| Nickel | 23 | 19 | <2 | 2 | 200.7 |
| Selenium | <0.5 | 0.8 | <0.5 | 0.5 | 270.2 |
| Silver | <0.4 | <0.5 | <0.4 | 0.4 | 200.7 |
| Thallium | 0.3 | 0.2 | <0.1 | 0.1 | 279.2 |
| Zinc | 130 | 213 | 1.2 | 0.3 | 200.7 |

Samples with identifications ending with D or Dup are duplicates.

** Data reported as dry weight.

Sample detection limit = method detection limit * 100 / percent solid.

Notes:

+ = Method 239.2, MDL = 0.1 mg/Kg.

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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Page 1

Client: OPTECH
REVET Account No.: E1997
Date Received: 11/16/93
Matrix: Soil

Contact: JOHN MORRIS
Location / PO: WORCESTER ANG/P.N. 1315-113
Metals prep date: 11/19/93
Mercury prep date: 12/02/93

Analyst: Donald A. H. G.
D. D'ANJOU, Ph.D.

Date: 1/25/94

QC Dept: E. Taylor

Date: 1/25/94

Total Metals, mg/Kg **

| REVET ID | 7150 | 7151 | 7152 | Method | |
|--------------|-----------------|-----------------|-----------------|--------------|--------|
| Client ID | 01-001 BH INT 1 | 01-002 BH INT 1 | 01-003 BH INT 1 | Detection | |
| Date Sampled | 11/16/93 | 11/16/93 | 11/16/93 | Limit, mg/Kg | Method |
| % Solid | 95.9 | 93.6 | 94.4 | | |
| Antimony | <10 | <10 | <10 | 10 | 200.7 |
| Arsenic | 36 | 67 | 32 | 0.4 | 206.2 |
| Beryllium | 0.2 | 0.3 | 0.7 | 0.1 | 200.7 |
| Cadmium | <0.4 | <0.4 | <0.4 | 0.4 | 200.7 |
| Chromium | 18.0 | 19.3 | 20.9 | 0.9 | 200.7 |
| Copper | 36.0 | 45.4 | 26.2 | 0.3 | 200.7 |
| Lead | 20 | 9.1+ | 60 | 5 | 200.7 |
| Mercury | <0.1 | <0.1 | <0.1 | 0.1 | 245.5 |
| Nickel | 21 | 29 | 17 | 2 | 200.7 |
| Selenium | <0.5 | <0.5 | <0.5 | 0.5 | 270.2 |
| Silver | <0.4 | <0.4 | <0.4 | 0.4 | 200.7 |
| Thallium | 0.2 | 0.2 | 0.2 | 0.1 | 279.2 |
| Zinc | 53.2 | 50.7 | 51.9 | 0.3 | 200.7 |

Samples with identifications ending with D or Dup are duplicates.

** Data reported as dry weight.

Sample detection limit = method detection limit * 100 / percent solid.

Notes:

+ = Method 239.2, MDL = 0.1 mg/Kg.

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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Marlboro, MA 01752
DEP Certification MA #082
(508) 460-7600

Page 2

Client: OPTECH
REVET Account No.: E1997
Date Received: 11/16/93
Matrix: Soil

Contact: JOHN MORRIS
Location / PO: WORCESTER ANG/P.N. 1315-113
Metals prep date: 11/19/93
Mercury prep date: 12/02/93

Analyst: Donald D. D'Anjou Date: 1/25/94
D. D'ANJOU, Ph.D.

QC Dept: E Taylor Date: 1/25/94

Total Metals, mg/Kg **

| REVET ID | 7153 | 7154 | BLANK.1997.1 | Method | |
|--------------|-----------------|-----------------|--------------|--------------|--------|
| Client ID | 01-003 BH INT 2 | 01-012 BH INT 1 | LABBLK | Detection | |
| Date Sampled | 11/16/93 | 11/16/93 | mg/L | Limit, mg/Kg | Method |
| % Solid | 86.6 | 92.3 | | | |
| Antimony | <10 | <10 | <10 | 10 | 200.7 |
| Arsenic | 38 | 17 | <0.4 | 0.4 | 206.2 |
| Beryllium | 1.2 | 0.3 | <0.1 | 0.1 | 200.7 |
| Cadmium | <0.4 | <0.4 | <0.4 | 0.4 | 200.7 |
| Chromium | 44.2 | 32.8 | 1.2 | 0.9 | 200.7 |
| Copper | 22.9 | 23.3 | <0.3 | 0.3 | 200.7 |
| Lead | 10 | 20 | 0.2+ | 5 | 200.7 |
| Mercury | <0.1 | <0.1 | <0.1 | 0.1 | 245.5 |
| Nickel | 31 | 21 | <2 | 2 | 200.7 |
| Selenium | <0.5 | <0.5 | <0.5 | 0.5 | 270.2 |
| Silver | <0.4 | <0.4 | <0.4 | 0.4 | 200.7 |
| Thallium | 0.3 | 0.2 | <0.1 | 0.1 | 279.2 |
| Zinc | 52.9 | 46.9 | 1.2 | 0.3 | 200.7 |

Samples with identifications ending with D or Dup are duplicates.

** Data reported as dry weight.

Sample detection limit = method detection limit * 100 / percent solid.

Notes:

+ = Method 239.2, MDL = 0.1 mg/Kg.

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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DEP Certification # M-MA082
Telephone (508) 460-7600
Facsimile (508) 460-7777

Client OpTech

Contact: M. Escobar

Revet Account Number: E1997 = TPH by IR
E2008 = PCB and TPH by IR
E2014 = TPH by IR

Method's Used: PCB 8080 Matrix: soil
TPH by IR 413.1

This data package contains the following reports:

PCB Analysis

| Revet ID | Client ID |
|----------|------------------|
| 7240 | 01-012 BH, INT 2 |
| 7242 | 01-013 BH, INT 1 |
| 7246 | 01-005 BH, INT 2 |
| 7247 | 01-010 BH, INT 1 |
| 7248 | 01-008 BH, INT 1 |
| 7249 | 01-004 BH, INT 1 |
| 7250 | 01-004 BH, INT 2 |

TPH BY IR

| Revet ID | Client ID |
|----------|------------------|
| 7155 | 01-001 BH, INT 1 |
| 7156 | 01-002 BH, INT 1 |
| 7157 | 01-003 BH, INT 1 |
| 7158 | 01-003 BH, INT 2 |
| 7159 | 01-012 BH, INT 1 |
| 7270 | 01-012 BH, INT 2 |
| 7271 | 01-014 BH, INT 1 |
| 7272 | 01-013 BH, INT 1 |
| 7273 | 01-006 BH, INT 1 |
| 7274 | 01-006 BH, INT 2 |
| 7275 | 01-005 BH, INT 1 |
| 7276 | 01-005 BH, INT 2 |
| 7277 | 01-010 BH, INT 1 |
| 7278 | 01-008 BH, INT 1 |
| 7279 | 01-004 BH, INT 1 |
| 7280 | 01-004 BH, INT 2 |
| 7355 | 01-015 BH, INT 1 |
| 7356 | 01-015 BH, DUP |
| 7357 | 01-011 BH, INT 1 |
| 7358 | 01-011 BH, DUP |
| 7359 | 01-009 BH, INT 1 |
| 7360 | 01-007 BH, INT 1 |
| 7361 | 01-007 BH, DUP |
| 7362 | 01-007 BH, INT 2 |

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Page 1

Client: OPTECH
REKET Account No.: E1997
Method: 418.1
Location/PO: WORCESTER ANG/P.N. 1315-113

Contact: JOHN MORRIS
Date Received: 11/16/93
Matrix: Soil

QC Dept: E. Taylor
Quality Control Office

Date: 1/11/94

11/16 = 12/14

11/17 = 12/15

11/18 = 12/16

~~28~~ 28 DAY TAT

TPH by IR

| REVET ID | Client ID | Date Sampled | Detection Limit | Results** mg/kg | % Moisture |
|----------|-----------------|-----------------|--------------------|--------------------|------------|
| 7155 | 01-001 BH INT 1 | 11/16/93 | 40 | <40 | 95.3 |
| 7156 | 01-002 BH INT 1 | 11/16/93 | 40 | 92 | 94.7 |
| 7157 | 01-003 BH INT 1 | 11/16/93 | 40 | <40 | 93.4 |
| 7158 | 01-003 BH INT 2 | 11/16/93 | 40 | <40 | 84.6 |
| 7159 | 01-012 BH INT 1 | 11/16/93 | 40 | <40 | 92.6 |

** Results reported as dry weight.

Notes: Date analyzed = 12/30/93.

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Client: OPTECH
REJET Account No.: E2008
Method: 418.1
Location/PO: WORCESTER ANG/P.N. 1315-113
Contact: JOHN MORRIS
Date Received: 11/17/93
Matrix: Soil

QC Dept: E. Ayler
Quality Control Office

Date: 1/13/94

TPH by IR

| REJET ID | Client ID | Date Sampled | Detection Limit | Results** mg/kg | % Moisture |
|----------|------------------|-----------------|--------------------|--------------------|------------|
| 7270 | 01-012 BH, INT 2 | 11/17/93 | 800 | 17400 | 92.7 |
| 7271 | 01-014 BH, INT 1 | 11/17/93 | 40 | <40 | 91.1 |
| 7272 | 01-013 BH, INT 1 | 11/17/93 | 40 | 87.0 | 87 |
| 7273 | 01-006 BH, INT 1 | 11/17/93 | 40 | 75 | 88 |
| 7274 | 01-006 BH, INT 2 | 11/17/93 | 40 | <40 | 72.6 |
| 7275 | 01-005 BH, INT 1 | 11/17/93 | 40 | <40 | 92.8 |
| 7276 | 01-005 BH, INT 2 | 11/17/93 | 40 | 790 | 81.2 |
| 7277 | 01-010 BH, INT 1 | 11/17/93 | 40 | <40 | 59.3 |
| 7278 | 01-008 BH, INT 1 | 11/17/93 | 800 | 130000 | 16.9 |
| 7279 | 01-004 BH, INT 1 | 11/17/93 | 40 | <40 | 90.3 |
| 7280 | 01-004 BH, INT 2 | 11/17/93 | 40 | 150 | 78.6 |

** Results reported as dry weight.

Notes: Date analyzed: Revet ID 7270 = 12/30/93
Date analyzed: Revet ID 7271 - 7276 = 01/03/94
Date analyzed: Revet ID 7277 - 7280 = 01/04/94

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Page 1

Client: OPTECH
REVET Account No.: E2014
Method: 418.1
Location/PO: WORCESTER ANG/P.N. 1315-113
Contact: JOHN MORRIS
Date Received: 11/18/93
Matrix: Soil

QC Dept: E. Taylor
Quality Control Office

Date: 1/13/93

TPH by IR

| REVET ID | Client ID | Date Sampled | Detection Limit | Results** mg/kg | % Moisture |
|----------|------------------|--------------|-----------------|--------------------|------------|
| 7355 | 01-015 BH, INT 1 | 11/18/93 | 40 | 210 | 83.2 |
| 7356 | 01-015 BH, DUP | 11/18/93 | 40 | <40 | 86.2 |
| 7357 | 01-011 BH, INT 1 | 11/18/93 | 40 | <40 | 80.6 |
| 7358 | 01-011 BH, DUP | 11/18/93 | 40 | <40 | 79.1 |
| 7359 | 01-009 BH, INT 1 | 11/18/93 | 40 | <40 | 74.4 |
| 7360 | 01-007 BH, INT 1 | 11/18/93 | 40 | 160 | 89 |
| 7361 | 01-007 BH, DUP | 11/18/93 | 40 | 410 | 88.5 |
| 7362 | 01-007 BH, INT 2 | 11/18/93 | 40 | 260 | 88.4 |

** Results reported as dry weight.

Notes: Date analyzed: Revet ID 7355 - 7357 = 01/04/94
Date analyzed: Revet ID 7358 - 7362 = 01/05/94

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Client: OPTECH
REVEt Account No.: E2014
Method: 418.1
Location/PO: WORCESTER ANG/P.N. 1315-113
Contact: JOHN MORRIS
Date Received: 11/18/93
Matrix: Water

Analyst:

D. Toupin

Date:

12/15/93

TPH by IR

| REVEt ID | Client ID | Date Sampled | Detection Limit | Results mg/L |
|----------|-----------------|-----------------|--------------------|-----------------|
| 7363 | EQUIPMENT BLANK | 11/18/93 | 1 | <1 |
| 7364 | FIELD BLANK #3 | 11/18/93 | 1 | <1 |

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Client: OPTECH Contact: JOHN MORRIS
REJET Account No.: E2008 Date Received: 11/17/93
Method: 418.1 Matrix: Water
Location/PO: WORCESTER ANG/P.N. 1315-113

Analyst: D. Toupin Date: 12/15/93
D. Toupin

TPH by IR

| REJET ID | Client ID | Date Sampled | Detection Limit | Results mg/L |
|----------|-----------------|-----------------|--------------------|-----------------|
| 7281 | FIELD BLANK #1 | 11/17/93 | 1 | <1 |
| 7282 | FIELD BLANK #2 | 11/17/93 | 1 | <1 |
| 7283 | EQUIPMENT BLANK | 11/17/93 | 1 | <1 |
| 7284 | EQUIPMENT BLANK | 11/17/93 | 1 | <1 |

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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7314 REVET Account No.: E2014
Client Sample: 01-015 BH, INT 1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/18/93 Date Received: 11/18/93
Matrix: Soil Date Run: 11/24/93
Method: 8240 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS**
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

REVEE Sample No.: 7314

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture- 14.3

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 93 | 70-121 |
| Toluene-d8 | 104 | 84-138 |
| 4-Bromofluorobenzene | 98 | 59-113 |

Notes:

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7316 REVET Account No.: E2014
Client Sample: 01-011 BH, INT 1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/18/93 Date Received: 11/18/93
Matrix: Soil Date Run: 11/24/93
Method: 8240 Dilution Factor: 1.1

Analyst: A. WOLF Date: 12-16-93

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS**
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 11 | R | ND |
| 74-83-9 | Bromomethane | 11 | E | ND |
| 75-01-4 | Vinyl Chloride | 11 | V | ND |
| 75-00-3 | Chloroethane | 11 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 11 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 11 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 11 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 11 | R | ND |
| 591-78-6 | 2-Hexanone | 11 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

REVEL Sample No.: 7316

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 11 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 11 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 21.7

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 96 | 70-121 |
| Toluene-d8 | 107 | 84-138 |
| 4-Bromofluorobenzene | 92 | 59-113 |

Notes:

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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| | |
|---------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7318 | REVET Account No.: E2014 |
| Client Sample: 01-009 BH, INT 1 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/18/93 | Date Received: 11/18/93 |
| Matrix: Soil | Date Run: 11/24/93 |
| Method: 8240 | Dilution Factor: 1.2 |

Analyst:

A. WOLF

Date:

12-14-93

QC Check:

J. Paquin

Date:

12/14/93

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 12 | R | ND |
| 74-83-9 | Bromomethane | 12 | E | ND |
| 75-01-4 | Vinyl Chloride | 12 | V | ND |
| 75-00-3 | Chloroethane | 12 | E | ND |
| 75-09-2 | Methylene chloride | 6 | T | ND |
| 67-64-1 | Acetone | 12 | | ND |
| 75-15-0 | Carbon disulfide | 6 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 6 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 6 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 6 | I | ND |
| 67-66-3 | Chloroform | 6 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 6 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 12 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 6 | M | ND |
| 56-23-5 | Carbon tetrachloride | 6 | E | ND |
| 75-27-4 | Bromodichloromethane | 6 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 6 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 6 | A | ND |
| 79-01-6 | Trichloroethylene | 6 | L | ND |
| 124-48-1 | Dibromochloromethane | 6 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 6 | L | ND |
| 71-43-2 | Benzene | 6 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 6 | B | ND |
| 75-25-2 | Bromoform | 12 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 12 | R | ND |
| 591-78-6 | 2-Hexanone | 12 | A | ND |
| 127-18-4 | Tetrachloroethylene | 6 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6 | O | ND |
| 108-88-3 | Toluene | 6 | R | ND |
| 108-90-7 | Chlorobenzene | 6 | Y | ND |
| 100-41-4 | Ethylbenzene | 6 | | ND |

REVEV Sample No.: 7318

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 6 | ND |
| 1330-20-7 | Total xylenes | 6 | ND |
| 108-05-4 | Vinyl Acetate | 6 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 12 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 12 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture=20.0

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 93 | 70-121 |
| Toluene-d8 | 105 | 84-138 |
| 4-Bromofluorobenzene | 103 | 59-113 |

Notes:

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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| | |
|---------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7319 | REVET Account No.: E2014 |
| Client Sample: 01-007 BH, INT 1 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/18/93 | Date Received: 11/18/93 |
| Matrix: Soil | Date Run: 11/26/93 |
| Method: 8240 | Dilution Factor: 1 |

Analyst: A. Wolf Date: 12-14-93

QC Check: J. Paquin Date: 12/14/93

| | | EPA Method | | RESULTS** |
|------------|----------------------------|------------------|---|-----------|
| | | Detection Limits | | |
| | | for this sample* | | |
| CAS Number | Compound | ug/kg | | ug/kg |
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

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REVET Sample No.: 7319

EPA Method

RESULTS**

Detection Limits

for this sample*

CAS Number Compoundug/kgug/kg

| | | | |
|-----------|----------------------------|----|----|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture- 11.0

| <u>Compound</u> | <u>Surrogate % Recovery</u> | <u>Acceptable Soil Limits</u> |
|-----------------------|-----------------------------|-----------------------------------|
| 1,2-Dichloroethane-d4 | 91 | 70-121 |
| Toluene-d8 | 108 | 84-138 |
| 4-Bromofluorobenzene | 98 | 59-113 |

Notes:

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| | | | |
|------------------------|----------------------------|------------------|--------------|
| REVET Sample No.: 7321 | | EPA Method | RESULTS** |
| | | Detection Limits | |
| | | for this sample* | |
| <u>CAS Number</u> | <u>Compound</u> | <u>ug/kg</u> | <u>ug/kg</u> |
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 12.5

| <u>Compound</u> | <u>Surrogate % Recovery</u> | <u>Acceptable Soil Limits</u> |
|-----------------------|-----------------------------|-----------------------------------|
| 1,2-Dichloroethane-d4 | 97 | 70-121 |
| Toluene-d8 | 99 | 84-138 |
| 4-Bromofluorobenzene | 89 | 59-113 |

Notes:

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| ===== | | | |
|------------------------|----------------------------|------------------|---------|
| REVET Sample No.: T208 | | EPA Method | RESULTS |
| | | Detection Limits | |
| | | for this sample* | |
| CAS Number | Compound | ug/Kg | ug/Kg |
| 100-42-5 | Styrene | 280 | ND |
| 1330-20-7 | Total xylenes | 280 | 2000 |
| 108-05-4 | Vinyl Acetate | 280 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 550 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 550 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

%moisture = 9.7

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 96 | 76-114 |
| Toluene-d8 | 99 | 88-110 |
| 4-Bromofluorobenzene | 88 | 86-115 |

Notes:***Unable to run sample at a lower dilution factor due to the presence of non-target compounds at high concentration.

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| | |
|---------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7209 | REVEN Account No.: E2008 |
| Client Sample: 01-014 BH, INT 1 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/17/93 | Date Received: 11/17/93 |
| Matrix: Soil | Date Run: 11/19/93 |
| Method: 8240 | Dilution Factor: 0.9 |

Analyst:

A.WOLF

Date:

12-14-93

QC Check:

J. Paquin

Date:

12/14/93

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 9 | R | ND |
| 74-83-9 | Bromomethane | 9 | E | ND |
| 75-01-4 | Vinyl Chloride | 9 | V | ND |
| 75-00-3 | Chloroethane | 9 | E | ND |
| 75-09-2 | Methylene chloride | 4 | T | ND |
| 67-64-1 | Acetone | 9 | | ND |
| 75-15-0 | Carbon disulfide | 4 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 4 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 4 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 4 | I | ND |
| 67-66-3 | Chloroform | 4 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 4 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 9 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 4 | M | ND |
| 56-23-5 | Carbon tetrachloride | 4 | E | ND |
| 75-27-4 | Bromodichloromethane | 4 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 4 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 4 | A | ND |
| 79-01-6 | Trichloroethylene | 4 | L | ND |
| 124-48-1 | Dibromochloromethane | 4 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 4 | L | ND |
| 71-43-2 | Benzene | 4 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 4 | B | ND |
| 75-25-2 | Bromoform | 9 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 9 | R | ND |
| 591-78-6 | 2-Hexanone | 9 | A | ND |
| 127-18-4 | Tetrachloroethylene | 4 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4 | O | ND |
| 108-88-3 | Toluene | 4 | R | ND |
| 108-90-7 | Chlorobenzene | 4 | Y | ND |
| 100-41-4 | Ethylbenzene | 4 | | ND |

REVEI Sample No.: 7209

EPA Method

RESULTS**

Detection Limits

for this sample*

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 4 | ND |
| 1330-20-7 | Total xylenes | 4 | ND |
| 108-05-4 | Vinyl Acetate | 4 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 9 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 9 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture- 9.2

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 88 | 70-121 |
| Toluene-d8 | 104 | 84-138 |
| 4-Bromofluorobenzene | 102 | 59-113 |

Notes:

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| | | |
|---------------------------------|-----------------------|------------------------------|
| Client: OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: 7210 | REVE Account No.: | E2008 |
| Client Sample: 01-013 BH, INT 1 | Client Location/P.O.: | WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/17/93 | Date Received: | 11/17/93 |
| Matrix: Soil | Date Run: | 11/19/93 |
| Method: 8240 | Dilution Factor: | 1.1 |

Analyst:

A. WOLF

Date:

12-14-94

QC Check:

J. Paquin

Date:

12/14/93

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 11 | R | ND |
| 74-83-9 | Bromomethane | 11 | E | ND |
| 75-01-4 | Vinyl Chloride | 11 | V | ND |
| 75-00-3 | Chloroethane | 11 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 11 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 11 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 11 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 11 | R | ND |
| 591-78-6 | 2-Hexanone | 11 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

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REVE Sample No.: 7210

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 11 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 11 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 13.6

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 106 | 70-121 |
| Toluene-d8 | 115 | 84-138 |
| 4-Bromofluorobenzene | 94 | 59-113 |

Notes:

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| | |
|---------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7211 | REVEt Account No.: E2008 |
| Client Sample: 01-006 BH, INT 1 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/17/93 | Date Received: 11/17/93 |
| Matrix: Soil | Date Run: 11/19/93 |
| Method: 8240 | Dilution Factor: 1 |

Analyst:

A. WOLF

Date:

12-14-93

QC Check:

J. Paquin

Date:

12/14/93

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

REVEI Sample No.: 7211

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture- 13.3

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 104 | 70-121 |
| Toluene-d8 | 110 | 84-138 |
| 4-Bromofluorobenzene | 100 | 59-113 |

Notes:

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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7212 REVET Account No.: E2008
Client Sample: 01-006 BH, INT 2 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/17/93 Date Received: 11/17/93
Matrix: Soil Date Run: 11/19/93
Method: 8240 Dilution Factor: 1.2

Analyst:

A. Wolf
A. WOLF

Date:

12-14-93

QC Check:

J. Paquin

Date:

12/14/93

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 12 | R | ND |
| 74-83-9 | Bromomethane | 12 | E | ND |
| 75-01-4 | Vinyl Chloride | 12 | V | ND |
| 75-00-3 | Chloroethane | 12 | E | ND |
| 75-09-2 | Methylene chloride | 6 | T | ND |
| 67-64-1 | Acetone | 12 | | 220 |
| 75-15-0 | Carbon disulfide | 6 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 6 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 6 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 6 | I | ND |
| 67-66-3 | Chloroform | 6 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 6 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 12 | N | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | 6 | M | ND |
| 56-23-5 | Carbon tetrachloride | 6 | E | ND |
| 75-27-4 | Bromodichloromethane | 6 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 6 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 6 | A | ND |
| 79-01-6 | Trichloroethylene | 6 | L | ND |
| 124-48-1 | Dibromochloromethane | 6 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 6 | L | ND |
| 71-43-2 | Benzene | 6 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 6 | B | ND |
| 75-25-2 | Bromoform | 12 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 12 | R | ND |
| 591-78-6 | 2-Hexanone | 12 | A | ND |
| 127-18-4 | Tetrachloroethylene | 6 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6 | O | ND |
| 108-88-3 | Toluene | 6 | R | 6 |
| 108-90-7 | Chlorobenzene | 6 | Y | ND |
| 100-41-4 | Ethylbenzene | 6 | | ND |

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ACETONE

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REVET Sample No.: 7212

EPA Method

RESULTS**

Detection Limits

for this sample*

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 6 | ND |
| 1330-20-7 | Total xylenes | 6 | ND |
| 108-05-4 | Vinyl Acetate | 6 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 12 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 12 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture- 26.9

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 112 | 70-121 |
| Toluene-d8 | 120 | 84-138 |
| 4-Bromofluorobenzene | 87 | 59-113 |

Notes:

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| | |
|---------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7213 | REJET Account No.: E2008 |
| Client Sample: 01-005 BH, INT 1 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/17/93 | Date Received: 11/17/93 |
| Matrix: Soil | Date Run: 11/23/93 |
| Method: 8240 | Dilution Factor: 1 |

Analyst: A. WOLF Date: 12-14-93

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS**

Detection Limits

for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

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REVET Sample No.: 7213

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 6.7

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 97 | 70-121 |
| Toluene-d8 | 102 | 84-138 |
| 4-Bromofluorobenzene | 91 | 59-113 |

Notes:

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Client: OPTECH
Revet Sample No.: 7214
Client Sample: 01-005 BH, INT 2
Date Sampled: 11/17/93
Matrix: Soil
Method: 8240
Contact: JOHN MORRIS
REVE Account No.: E2008
Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Received: 11/17/93
Date Run: 11/23/93
Dilution Factor: 1.2

Analyst: A. Wolf Date: 12-14-93

QC Check: J. Pagani Date: 12/14/93

EPA Method
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | RESULTS** |
|------------|----------------------------|-------|---|-----------|
| 74-87-3 | Chloromethane | 12 | R | ND |
| 74-83-9 | Bromomethane | 12 | E | ND |
| 75-01-4 | Vinyl Chloride | 12 | V | ND |
| 75-00-3 | Chloroethane | 12 | E | ND |
| 75-09-2 | Methylene chloride | 6 | T | ND |
| 67-64-1 | Acetone | 12 | | 110 |
| 75-15-0 | Carbon disulfide | 6 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 6 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 6 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 6 | I | ND |
| 67-66-3 | Chloroform | 6 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 6 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 12 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 6 | M | ND |
| 56-23-5 | Carbon tetrachloride | 6 | E | ND |
| 75-27-4 | Bromodichloromethane | 6 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 6 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 6 | A | ND |
| 79-01-6 | Trichloroethylene | 6 | L | ND |
| 124-48-1 | Dibromochloromethane | 6 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 6 | L | ND |
| 71-43-2 | Benzene | 6 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 6 | B | ND |
| 75-25-2 | Bromoform | 12 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 12 | R | ND |
| 591-78-6 | 2-Hexanone | 12 | A | ND |
| 127-18-4 | Tetrachloroethylene | 6 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6 | O | ND |
| 108-88-3 | Toluene | 6 | R | 8 |
| 108-90-7 | Chlorobenzene | 6 | Y | ND |
| 100-41-4 | Ethylbenzene | 6 | | ND |

HIT ON
ACETONE

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REVET Sample No.: 7214

EPA Method

RESULTS**

Detection Limits

for this sample*

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 6 | ND |
| 1330-20-7 | Total xylenes | 6 | ND |
| 108-05-4 | Vinyl Acetate | 6 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 12 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 12 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture- 19.0

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 107 | 70-121 |
| Toluene-d8 | 108 | 84-138 |
| 4-Bromofluorobenzene | 93 | 59-113 |

Notes:

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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| | |
|---------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7215 | REVEI Account No.: E2008 |
| Client Sample: 01-010 BH, INT 1 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/17/93 | Date Received: 11/17/93 |
| Matrix: Soil | Date Run: 11/23/93 |
| Method: 8240 | Dilution Factor: 1.6 |

Analyst:

A.WOLF

Date:

12-14-93

QC Check:

J. Paquin

Date:

12/14/93

EPA Method

RESULTS**

Detection Limits

for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 16 | R | ND |
| 74-83-9 | Bromomethane | 16 | E | ND |
| 75-01-4 | Vinyl Chloride | 16 | V | ND |
| 75-00-3 | Chloroethane | 16 | E | ND |
| 75-09-2 | Methylene chloride | 8 | T | ND |
| 67-64-1 | Acetone | 16 | | ND |
| 75-15-0 | Carbon disulfide | 8 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 8 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 8 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 8 | I | ND |
| 67-66-3 | Chloroform | 8 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 8 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 16 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 8 | M | ND |
| 56-23-5 | Carbon tetrachloride | 8 | E | ND |
| 75-27-4 | Bromodichloromethane | 8 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 8 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 8 | A | ND |
| 79-01-6 | Trichloroethylene | 8 | L | ND |
| 124-48-1 | Dibromochloromethane | 8 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 8 | L | ND |
| 71-43-2 | Benzene | 8 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 8 | B | ND |
| 75-25-2 | Bromoform | 16 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 16 | R | ND |
| 591-78-6 | 2-Hexanone | 16 | A | ND |
| 127-18-4 | Tetrachloroethylene | 8 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 8 | O | ND |
| 108-88-3 | Toluene | 8 | R | ND |
| 108-90-7 | Chlorobenzene | 8 | Y | ND |
| 100-41-4 | Ethylbenzene | 8 | | ND |

REVE Sample No.: 7215

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 8 | ND |
| 1330-20-7 | Total xylenes | 8 | ND |
| 108-05-4 | Vinyl Acetate | 8 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 16 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 16 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 42.8

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 104 | 70-121 |
| Toluene-d8 | 121 | 84-138 |
| 4-Bromofluorobenzene | 83 | 59-113 |

Notes:

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| | |
|---------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7216 | REVE Account No.: E2008 |
| Client Sample: 01-008 BH, INT 1 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/17/93 | Date Received: 11/17/93 |
| Matrix: Soil | Date Run: 11/26/93 |
| Method: 8240 | Dilution Factor: 2920 *** |

Analyst: J. Paquin for Date: 12/14/93
A. WOLF

QC Check: E. Taylor Date: 12/14/93

EPA Method RESULTS

Detection Limits

for this sample*

| CAS Number | Compound | ug/Kg | | ug/Kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 5800 | R | ND |
| 74-83-9 | Bromomethane | 5800 | E | ND |
| 75-01-4 | Vinyl Chloride | 5800 | V | ND |
| 75-00-3 | Chloroethane | 5800 | E | ND |
| 75-09-2 | Methylene chloride | 2900 | T | ND |
| 67-64-1 | Acetone | 5800 | | ND |
| 75-15-0 | Carbon disulfide | 2900 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 2900 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 2900 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 2900 | I | ND |
| 67-66-3 | Chloroform | 2900 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 2900 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 5800 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 2900 | M | ND |
| 56-23-5 | Carbon tetrachloride | 2900 | E | ND |
| 75-27-4 | Bromodichloromethane | 2900 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 2900 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 2900 | A | ND |
| 79-01-6 | Trichloroethylene | 2900 | L | ND |
| 124-48-1 | Dibromochloromethane | 2900 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 2900 | L | ND |
| 71-43-2 | Benzene | 2900 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 2900 | B | ND |
| 75-25-2 | Bromoform | 5800 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 5800 | R | ND |
| 591-78-6 | 2-Hexanone | 5800 | A | ND |
| 127-18-4 | Tetrachloroethylene | 2900 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2900 | O | ND |
| 108-88-3 | Toluene | 2900 | R | ND |
| 108-90-7 | Chlorobenzene | 2900 | Y | ND |
| 100-41-4 | Ethylbenzene | 2900 | | ND |

| | | | |
|------------------------|----------------------------|------------------|--------------|
| REVET Sample No.: 7216 | | EPA Method | RESULTS |
| | | Detection Limits | |
| | | for this sample* | |
| <u>CAS Number</u> | <u>Compound</u> | <u>ug/Kg</u> | <u>ug/Kg</u> |
| 100-42-5 | Styrene | 2900 | ND |
| 1330-20-7 | Total xylenes | 2900 | ND |
| 108-05-4 | Vinyl Acetate | 2900 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 5800 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 5800 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

%moisture = 57.2

| <u>Compound</u> | <u>Surrogate % Recovery</u> | <u>Acceptable Soil Limits</u> |
|-----------------------|-----------------------------|-----------------------------------|
| 1,2-Dichloroethane-d4 | 89 | 76-114 |
| Toluene-d8 | 107 | 88-110 |
| 4-Bromofluorobenzene | 87 | 86-115 |

Notes:***Unable to run sample at a lower dilution factor due to the presence of non-target compounds at high concentration.

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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7217 REVET Account No.: E2008
Client Sample: 01-004 BH, INT 1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/17/93 Date Received: 11/17/93
Matrix: Soil Date Run: 11/26/93
Method: 8240 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93
A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS**
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

REJET Sample No.: 7217

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 10.7

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 100 | 70-121 |
| Toluene-d8 | 112 | 84-138 |
| 4-Bromofluorobenzene | 90 | 59-113 |

Notes:

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| | |
|---------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7218 | REVE Account No.: E2008 |
| Client Sample: 01-004 BH, INT 2 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/17/93 | Date Received: 11/17/93 |
| Matrix: Soil | Date Run: 11/23/93 |
| Method: 8240 | Dilution Factor: 1.2 |

Analyst: A. Wolf Date: 12-14-93
A. WOLF

QC Check: J. Pagan Date: 12/14/93

EPA Method RESULTS**
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 12 | R | ND |
| 74-83-9 | Bromomethane | 12 | E | ND |
| 75-01-4 | Vinyl Chloride | 12 | V | ND |
| 75-00-3 | Chloroethane | 12 | E | ND |
| 75-09-2 | Methylene chloride | 6 | T | ND |
| 67-64-1 | Acetone | 12 | | 65 |
| 75-15-0 | Carbon disulfide | 6 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 6 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 6 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 6 | I | ND |
| 67-66-3 | Chloroform | 6 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 6 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 12 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 6 | M | ND |
| 56-23-5 | Carbon tetrachloride | 6 | E | ND |
| 75-27-4 | Bromodichloromethane | 6 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 6 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 6 | A | ND |
| 79-01-6 | Trichloroethylene | 6 | L | ND |
| 124-48-1 | Dibromochloromethane | 6 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 6 | L | ND |
| 71-43-2 | Benzene | 6 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 6 | B | ND |
| 75-25-2 | Bromoform | 12 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 12 | R | ND |
| 591-78-6 | 2-Hexanone | 12 | A | ND |
| 127-18-4 | Tetrachloroethylene | 6 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6 | O | ND |
| 108-88-3 | Toluene | 6 | R | ND |
| 108-90-7 | Chlorobenzene | 6 | Y | ND |
| 100-41-4 | Ethylbenzene | 6 | | ND |

no 114

RESULTS**

Detection Limits

for this sample*

| CAS Number | Compound |
|------------|----------|
|------------|----------|

uc/kaug/kg

100-42-5 Styrene

6

ND

1330-20-7 Total xylenes

6

ND

108-05-4 Vinyl Acetate

6

ND

541-73-1 1,3-Dichlorobenzene

12

ND

----- 1,2- & 1,4-Dichlorobenzene

12

ND

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture- 21.1

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|------------------------|
| 1,2-Dichloroethane-d4 | 106 | 70-121 |
| Toluene-d8 | 113 | 84-138 |
| 4-Bromofluorobenzene | 95 | 59-113 |

Notes:

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Client: OPTECH
 Revet Sample No.: 7135
 Client Sample: 01-001 BH INT 1
 Date Sampled: 11/16/93
 Matrix: Soil
 Method: 8240
 Contact: JOHN MORRIS
 REVET Account No.: E1997
 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
 Date Received: 11/16/93
 Date Run: 11/18/93
 Dilution Factor: 1

Analyst:

A. WOLF

Date:

12/14/93

QC Check:

J. Paquin

Date:

12/14/93

EPA Method

RESULTS**

Detection Limits

for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

REJET Sample No.: 7135

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture- 4.1

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 103 | 70-121 |
| Toluene-d8 | 104 | 84-138 |
| 4-Bromofluorobenzene | 97 | 59-113 |

Notes:

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| | |
|--------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7136 | REVEL Account No.: E1997 |
| Client Sample: 01-002 BH INT 1 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/16/93 | Date Received: 11/16/93 |
| Matrix: Soil | Date Run: 11/18/93 |
| Method: 8240 | Dilution Factor: 0.9 |

Analyst: J. Wolf Date: 12-14-93
A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS**
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 9 | R | ND |
| 74-83-9 | Bromomethane | 9 | E | ND |
| 75-01-4 | Vinyl Chloride | 9 | V | ND |
| 75-00-3 | Chloroethane | 9 | E | ND |
| 75-09-2 | Methylene chloride | 4 | T | ND |
| 67-64-1 | Acetone | 9 | | ND |
| 75-15-0 | Carbon disulfide | 4 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 4 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 4 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 4 | I | ND |
| 67-66-3 | Chloroform | 4 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 4 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 9 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 4 | M | ND |
| 56-23-5 | Carbon tetrachloride | 4 | E | ND |
| 75-27-4 | Bromodichloromethane | 4 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 4 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 4 | A | ND |
| 79-01-6 | Trichloroethylene | 4 | L | ND |
| 124-48-1 | Dibromochloromethane | 4 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 4 | L | ND |
| 71-43-2 | Benzene | 4 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 4 | B | ND |
| 75-25-2 | Bromoform | 9 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 9 | R | ND |
| 591-78-6 | 2-Hexanone | 9 | A | ND |
| 127-18-4 | Tetrachloroethylene | 4 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4 | O | ND |
| 108-88-3 | Toluene | 4 | R | ND |
| 108-90-7 | Chlorobenzene | 4 | Y | ND |
| 100-41-4 | Ethylbenzene | 4 | | ND |

REVEL Sample No.: 7136

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 4 | ND |
| 1330-20-7 | Total xylenes | 4 | ND |
| 108-05-4 | Vinyl Acetate | 4 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 9 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 9 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture- 6.4

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 98 | 70-121 |
| Toluene-d8 | 104 | 84-138 |
| 4-Bromofluorobenzene | 94 | 59-113 |

Notes:

REVE ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395
DEP Certification MA #082
(508) 753-3738

Page 1 of 2

Client: OPTECH
Revet Sample No.: 7137
Client Sample: 01-003 BH INT 1
Date Sampled: 11/16/93
Matrix: Soil
Method: 8240
Contact: JOHN MORRIS
REVE Account No.: E1997
Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Received: 11/16/93
Date Run: 11/18/93
Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93

QC Check: J. Paquin Date: 12/14/93

EPA Method
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | RESULTS** |
|------------|----------------------------|-------|---|-----------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

REVEI Sample No.: 7137

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture- 5.6

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 103 | 70-121 |
| Toluene-d8 | 108 | 84-138 |
| 4-Bromofluorobenzene | 101 | 59-113 |

Notes:

REJET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395
DEP Certification MA #082
(508) 753-3738

Page 1 of 2

Client: OPTECH
Revet Sample No.: 7138
Client Sample: 01-003 BH INT 2
Date Sampled: 11/16/93
Matrix: Soil
Method: 8240
Contact: JOHN MORRIS
REJET Account No.: E1997
Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Received: 11/16/93
Date Run: 11/18/93
Dilution Factor: 1

Analyst: J. Wolf Date: 12-14-93
A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | RESULTS** |
|------------|----------------------------|-------|---|-----------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

REJET Sample No.: 7138

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture- 13.4

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 101 | 70-121 |
| Toluene-d8 | 107 | 84-138 |
| 4-Bromofluorobenzene | 97 | 59-113 |

Notes:

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395
DEP Certification MA #082
(508) 753-3738

Page 1 of 2

| | |
|--------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7139 | REVE Account No.: E1997 |
| Client Sample: 01-012 BH INT 1 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/16/93 | Date Received: 11/16/93 |
| Matrix: Soil | Date Run: 11/18/93 |
| Method: 8240 | Dilution Factor: 1 |

Analyst: A. Wolf Date: 12/14/93

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS**
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | 78 |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

HIT ON

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REVET Sample No.: 7139

EPA Method
Detection Limits
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | ug/kg |
|------------|----------------------------|-------|-------|
| 100-42-5 | Styrene | 5 | ND |
| 1330-20-7 | Total xylenes | 5 | ND |
| 108-05-4 | Vinyl Acetate | 5 | ND |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | ND |
| ----- | 1,2- & 1,4-Dichlorobenzene | 10 | ND |

ND-Not Detected

* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight

Soil/sediment % moisture- 7.7

| Compound | Surrogate % Recovery | Acceptable Soil Limits |
|-----------------------|----------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 111 | 70-121 |
| Toluene-d8 | 109 | 84-138 |
| 4-Bromofluorobenzene | 95 | 59-113 |

Notes:

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Revet Environmental & Analytical Laboratories

REVET Account Number: E2014

**SemiVolatile Summary Data Package
for samples collected November 16, 17 & 18, 1993**



| | |
|---|-----|
| Case Narrative(s) | * |
| Sample Identification & Analytical Requirement Summary | 3 |
| Client Chain of Custody Form(s) | 5 |
| Sample Log-in Sheet(s) | 8 |
| Laboratory Chain of Custody Form(s) | 10 |
| Data Reporting Qualifiers | 20 |
| Sample Results | 21 |
| GC/MS SemiVolatile Results | 21 |
| Surrogate Spike Results | 165 |
| Matrix Spike/Matrix Spike Duplicate/Blank Spike/LCS Results | 167 |
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Sample Results

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street
Marlboro, MA 01782
DEP Certification # M-MA082
Telephone (508) 460-7600
Facsimile (508) 460-7777

Client: Optech

Contact: J. Morris

Revet Account Numbers: E1997, E2008 & E2014.

Matrix: Soil Analysis: Semivolatiles

| Revet ID | Client ID |
|----------|-----------------|
| 7140 | 01-001 BH INT 1 |
| 7141 | 01-002 BH INT 1 |
| 7142 | 01-003 BH INT 1 |
| 7143 | 01-003 BH INT 2 |
| 7144 | 01-012 BH INT 1 |
| 7225 | 01-012 BH INT 2 |
| 7226 | 01-014 BH INT 1 |
| 7227 | 01-013 BH INT 1 |
| 7228 | 01-006 BH INT 1 |
| 7229 | 01-006 BH INT 2 |
| 7230 | 01-005 BH INT 1 |
| 7231 | 01-005 BH INT 2 |
| 7232 | 01-010 BH INT 1 |
| 7233 | 01-008 BH INT 1 |
| 7234 | 01-004 BH INT 1 |
| 7235 | 01-004 BH INT 2 |
| 7325 | 01-015 BH INT 1 |
| 7326 | 01-015 BH DUP |
| 7327 | 01-011 BH INT 1 |
| 7328 | 01-011 BH DUP |
| 7329 | 01-009 BH INT 1 |
| 7330 | 01-007 BH INT 1 |
| 7331 | 01-007 BH DUP |
| 7332 | 01-007 BH INT 2 |

ORGANIC DATA REPORTING QUALIFIERS

The organic data qualifiers used in this report are as follows:

- Value - If the result is a value greater than or equal to the detection limit, the value is reported.
- U - Indicates the compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J - Indicates an estimated value. This flag is used to estimate a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate identification criteria, but the result is less than the specified detection limit.
- C - Applies to pesticide parameters when the identification has been confirmed by GC/MS.
- B - Used when the analyte is found in the blank, as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- E - Identifies compounds whose concentrations exceed the calibration range of the instruments for specific analysis.
- N - Compound not analyzed.
- D - Identifies all compounds analyzed at a secondary dilution.
- A - Indicates that a TIC is a suspected aldol-condensation product.
- X - Any other specific flags and footnotes that may be required to properly define the results.
- RE - Analysis performed on a re-extracted sample.
- NC - Peak not confirmed.
- I - Indicates interferences present in the matrix which affected the result.
- P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is flagged and reported on Form 1.

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7140

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-002

Sample wt/vol: 30.31 (g/mL) g

Lab File ID: DH109.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|---------------|------------------------------|-----|---|
| 108-95-2----- | Phenol | 340 | U |
| 62-53-3----- | Aniline | 340 | U |
| 111-44-4----- | bis(2-Chloroethyl) ether | 340 | U |
| 95-57-8----- | 2-Chlorophenol | 340 | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 340 | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 340 | U |
| 100-51-6----- | Benzyl Alcohol | 340 | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 340 | U |
| 95-48-7----- | 2-Methylphenol | 340 | U |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 340 | U |
| 106-44-5----- | 4-Methylphenol | 340 | U |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 340 | U |
| 67-72-1----- | Hexachloroethane | 340 | U |
| 98-95-3----- | Nitrobenzene | 340 | U |
| 78-59-1----- | Isophorone | 340 | U |
| 88-75-5----- | 2-Nitrophenol | 340 | U |
| 105-67-9----- | 2,4-Dimethylphenol | 340 | U |
| 65-85-0----- | Benzoic Acid | 860 | U |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 340 | U |
| 120-83-2----- | 2,4-Dichlorophenol | 340 | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 340 | U |
| 91-20-3----- | Naphthalene | 340 | U |
| 106-47-8----- | 4-Chloroaniline | 340 | U |
| 87-68-3----- | Hexachlorobutadiene | 340 | U |
| 59-50-7----- | 4-Chloro-3-methylphenol | 340 | U |
| 91-57-6----- | 2-Methylnaphthalene | 340 | U |
| 77-47-4----- | Hexachlorocyclopentadiene | 340 | U |
| 88-06-2----- | 2,4,6-Trichlorophenol | 340 | U |
| 95-95-4----- | 2,4,5-Trichlorophenol | 860 | U |
| 91-58-7----- | 2-Chloronaphthalene | 340 | U |
| 88-74-4----- | 2-Nitroaniline | 860 | U |
| 131-11-3----- | Dimethylphthalate | 340 | U |
| 208-96-8----- | Acenaphthylene | 340 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7140

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-002

Sample wt/vol: 30.31 (g/mL) g

Lab File ID: DH109.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|----------------|----------------------------|-----|---|
| 606-20-2----- | 2,6-Dinitrotoluene | 340 | U |
| 99-09-2----- | 3-Nitroaniline | 860 | U |
| 83-32-9----- | Acenaphthene | 340 | U |
| 51-28-5----- | 2,4-Dinitrophenol | 860 | U |
| 100-02-7----- | 4-Nitrophenol | 860 | U |
| 132-64-9----- | Dibenzofuran | 340 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 340 | U |
| 84-66-2----- | Diethylphthalate | 340 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 340 | U |
| 86-73-7----- | Fluorene | 340 | U |
| 100-01-6----- | 4-Nitroaniline | 860 | U |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 860 | U |
| 86-30-6----- | N-Nitrosodiphenylamine | 340 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 340 | U |
| 118-74-1----- | Hexachlorobenzene | 340 | U |
| 87-86-5----- | Pentachlorophenol | 860 | U |
| 85-01-8----- | Phenanthrene | 340 | U |
| 120-12-7----- | Anthracene | 340 | U |
| 86-74-8----- | Carbazole | 340 | U |
| 84-74-2----- | Di-n-butylphthalate | 340 | U |
| 206-44-0----- | Fluoranthene | 340 | U |
| 92-87-5----- | Benzidine | 340 | U |
| 129-00-0----- | Pyrene | 340 | U |
| 85-68-7----- | Butylbenzylphthalate | 340 | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 340 | U |
| 56-55-3----- | Benzo(a)anthracene | 340 | U |
| 218-01-9----- | Chrysene | 340 | U |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 340 | U |
| 117-84-0----- | Di-n-octylphthalate | 340 | U |
| 205-99-2----- | Benzo(b)fluoranthene | 340 | U |
| 207-08-9----- | Benzo(k)fluoranthene | 340 | U |
| 50-32-8----- | Benzo(a)pyrene | 340 | U |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 340 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7140

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-002

Sample wt/vol: 30.31 (g/mL) g

Lab File ID: ^DH109.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

| | | |
|------------------------------------|-----|---|
| 53-70-3-----Dibenzo(a,h)anthracene | 340 | U |
| 191-24-2-----Benzo(g,h,i)perylene | 340 | U |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7140

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-002

Sample wt/vol: 30.31 (g/mL) g

Lab File ID: DH109.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICS found: 4

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC | Q |
|------------|---------------|------|-----------|----|
| 1. | Aldol Product | 5.03 | 1700 | JB |
| 2. | Unknown | 5.41 | 210 | JB |
| 3. | Unknown | 5.46 | 290 | JB |
| 4. | Unknown | 6.92 | 160 | JB |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7141

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-003

Sample wt/vol: 30.19 (g/mL) g

Lab File ID: DH113.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|---------------|------------------------------|-----|---|
| 108-95-2----- | Phenol | 350 | U |
| 62-53-3----- | Aniline | 350 | U |
| 111-44-4----- | bis(2-Chloroethyl) ether | 350 | U |
| 95-57-8----- | 2-Chlorophenol | 350 | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 350 | U |
| 100-51-6----- | Benzyl Alcohol | 350 | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7----- | 2-Methylphenol | 350 | U |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 350 | U |
| 106-44-5----- | 4-Methylphenol | 350 | U |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 350 | U |
| 67-72-1----- | Hexachloroethane | 350 | U |
| 98-95-3----- | Nitrobenzene | 350 | U |
| 78-59-1----- | Isophorone | 350 | U |
| 88-75-5----- | 2-Nitrophenol | 350 | U |
| 105-67-9----- | 2,4-Dimethylphenol | 350 | U |
| 65-85-0----- | Benzoic Acid | 880 | U |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 350 | U |
| 120-83-2----- | 2,4-Dichlorophenol | 350 | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3----- | Naphthalene | 350 | U |
| 106-47-8----- | 4-Chloroaniline | 350 | U |
| 87-68-3----- | Hexachlorobutadiene | 350 | U |
| 59-50-7----- | 4-Chloro-3-methylphenol | 350 | U |
| 91-57-6----- | 2-Methylnaphthalene | 350 | U |
| 77-47-4----- | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2----- | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4----- | 2,4,5-Trichlorophenol | 880 | U |
| 91-58-7----- | 2-Chloronaphthalene | 350 | U |
| 88-74-4----- | 2-Nitroaniline | 880 | U |
| 131-11-3----- | Dimethylphthalate | 350 | U |
| 208-96-8----- | Acenaphthylene | 350 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7141

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-003

Sample wt/vol: 30.19 (g/mL) g

Lab File ID: DH113.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---------|----------|---|---|
|---------|----------|---|---|

| | | | |
|----------------|----------------------------|-----|---|
| 606-20-2----- | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2----- | 3-Nitroaniline | 880 | U |
| 83-32-9----- | Acenaphthene | 350 | U |
| 51-28-5----- | 2,4-Dinitrophenol | 880 | U |
| 100-02-7----- | 4-Nitrophenol | 880 | U |
| 132-64-9----- | Dibenzofuran | 350 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 350 | U |
| 84-66-2----- | Diethylphthalate | 350 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 350 | U |
| 86-73-7----- | Fluorene | 350 | U |
| 100-01-6----- | 4-Nitroaniline | 880 | U |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 880 | U |
| 86-30-6----- | N-Nitrosodiphenylamine | 350 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 350 | U |
| 118-74-1----- | Hexachlorobenzene | 350 | U |
| 87-86-5----- | Pentachlorophenol | 880 | U |
| 85-01-8----- | Phenanthrene | 350 | U |
| 120-12-7----- | Anthracene | 350 | U |
| 86-74-8----- | Carbazole | 350 | U |
| 84-74-2----- | Di-n-butylphthalate | 350 | U |
| 206-44-0----- | Fluoranthene | 350 | U |
| 92-87-5----- | Benzidine | 350 | U |
| 129-00-0----- | Pyrene | 350 | U |
| 85-68-7----- | Butylbenzylphthalate | 350 | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 350 | U |
| 56-55-3----- | Benzo(a)anthracene | 350 | U |
| 218-01-9----- | Chrysene | 350 | U |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 350 | U |
| 117-84-0----- | Di-n-octylphthalate | 350 | U |
| 205-99-2----- | Benzo(b)fluoranthene | 350 | U |
| 207-08-9----- | Benzo(k)fluoranthene | 350 | U |
| 50-32-8----- | Benzo(a)pyrene | 350 | U |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 350 | U |

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street
Worcester, MA 01605-2395
DEP Certification MA #082
(508) 753-3738

Page 1 of 2

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| | |
|---------------------------------|--|
| Client: OPTECH | Contact: JOHN MORRIS |
| Revet Sample No.: 7321 | REVE Account No.: E2014 |
| Client Sample: 01-007 BH, INT 2 | Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113 |
| Date Sampled: 11/18/93 | Date Received: 11/18/93 |
| Matrix: Soil | Date Run: 11/24/93 |
| Method: 8240 | Dilution Factor: 1 |

Analyst: A. Wolf Date: 12-14-93
A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS**
Detection Limits
for this sample*

| CAS Number | Compound | ug/kg | | ug/kg |
|------------|----------------------------|-------|---|-------|
| 74-87-3 | Chloromethane | 10 | R | ND |
| 74-83-9 | Bromomethane | 10 | E | ND |
| 75-01-4 | Vinyl Chloride | 10 | V | ND |
| 75-00-3 | Chloroethane | 10 | E | ND |
| 75-09-2 | Methylene chloride | 5 | T | ND |
| 67-64-1 | Acetone | 10 | | ND |
| 75-15-0 | Carbon disulfide | 5 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 5 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 5 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 5 | I | ND |
| 67-66-3 | Chloroform | 5 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 5 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 10 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | M | ND |
| 56-23-5 | Carbon tetrachloride | 5 | E | ND |
| 75-27-4 | Bromodichloromethane | 5 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 5 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | A | ND |
| 79-01-6 | Trichloroethylene | 5 | L | ND |
| 124-48-1 | Dibromochloromethane | 5 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | L | ND |
| 71-43-2 | Benzene | 5 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | B | ND |
| 75-25-2 | Bromoform | 10 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 10 | R | ND |
| 591-78-6 | 2-Hexanone | 10 | A | ND |
| 127-18-4 | Tetrachloroethylene | 5 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | O | ND |
| 108-88-3 | Toluene | 5 | R | ND |
| 108-90-7 | Chlorobenzene | 5 | Y | ND |
| 100-41-4 | Ethylbenzene | 5 | | ND |

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

DEP Certification MA #082

(508) 460-7600

Page 1 of 2

Client: OPTECH
 Revet Sample No.: 7208
 Client Sample: 01-012 BH, INT 2
 Date Sampled: 11/17/93
 Matrix: Soil
 Method: 8240
 Contact: JOHN MORRIS
 REVET Account No.: E2008
 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
 Date Received: 11/17/93
 Date Run: 11/26/93
 Dilution Factor: 277 ***

Analyst: J. Proxmire for A. WOLF Date: 12/14/93

QC Check: E. Taylor Date: 12/14/93

| CAS Number Compound | | EPA Method Detection Limits for this sample* | | RESULTS |
|---------------------|----------------------------|--|---|---------|
| | | ug/Kg | | Ug/Kg |
| 74-87-3 | Chloromethane | 550 | R | ND |
| 74-83-9 | Bromomethane | 550 | E | ND |
| 75-01-4 | Vinyl Chloride | 550 | V | ND |
| 75-00-3 | Chloroethane | 550 | E | ND |
| 75-09-2 | Methylene chloride | 280 | T | ND |
| 67-64-1 | Acetone | 550 | | ND |
| 75-15-0 | Carbon disulfide | 280 | E | ND |
| 75-35-4 | 1,1-Dichloroethene | 280 | N | ND |
| 75-34-3 | 1,1-Dichloroethane | 280 | V | ND |
| 156-60-5 | 1,2-dichloroethenes(total) | 280 | I | ND |
| 67-66-3 | Chloroform | 280 | R | ND |
| 107-06-2 | 1,2-Dichloroethane | 280 | O | ND |
| 78-93-3 | 2-Butanone (MEK) | 550 | N | ND |
| 71-55-6 | 1,1,1-Trichloroethane | 280 | M | ND |
| 56-23-5 | Carbon tetrachloride | 280 | E | ND |
| 75-27-4 | Bromodichloromethane | 280 | N | ND |
| 78-87-5 | 1,2-Dichloropropane | 280 | T | ND |
| 10061-01-5 | cis-1,3-Dichloropropene | 280 | A | ND |
| 79-01-6 | Trichloroethylene | 280 | L | ND |
| 124-48-1 | Dibromochloromethane | 280 | | ND |
| 79-00-5 | 1,1,2-Trichloroethane | 280 | L | ND |
| 71-43-2 | Benzene | 280 | A | ND |
| 10061-02-6 | trans-1,3-Dichloropropene | 280 | B | ND |
| 75-25-2 | Bromoform | 550 | O | ND |
| 108-10-1 | 4-Methyl-2-pentanone | 550 | R | ND |
| 591-78-6 | 2-Hexanone | 550 | A | ND |
| 127-18-4 | Tetrachloroethylene | 280 | T | ND |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 280 | O | ND |
| 108-88-3 | Toluene | 280 | R | ND |
| 108-90-7 | Chlorobenzene | 280 | Y | ND |
| 100-41-4 | Ethylbenzene | 280 | | ND |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7141

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-003

Sample wt/vol: 30.19 (g/mL) g

Lab File ID: DH113.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | | |
|---------------|------------------------|-----|---|
| 53-70-3----- | Dibenzo(a,h)anthracene | 350 | U |
| 191-24-2----- | Benzo(g,h,i)perylene | 350 | U |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7141

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-003

Sample wt/vol: 30.19 (g/mL) g

Lab File ID: ^DH113.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICS found: 6

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|----|
| 1. | Aldol Product | 5.03 | 1600 | JB |
| 2. | Unknown | 5.23 | 200 | J |
| 3. | Unknown | 5.41 | 200 | JB |
| 4. | Unknown | 5.45 | 250 | JB |
| 5. | Unknown | 5.88 | 240 | J |
| 6. | Unknown | 6.31 | 220 | J |
| 7. | | | | |
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7142

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-004

Sample wt/vol: 30.5 (g/mL) g

Lab File ID: DH121.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

| | | | |
|----------|------------------------------|-----|---|
| 108-95-2 | Phenol | 350 | U |
| 62-53-3 | Aniline | 350 | U |
| 111-44-4 | bis(2-Chloroethyl) ether | 350 | U |
| 95-57-8 | 2-Chlorophenol | 350 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 350 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 350 | U |
| 100-51-6 | Benzyl Alcohol | 350 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 350 | U |
| 95-48-7 | 2-Methylphenol | 350 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 350 | U |
| 106-44-5 | 4-Methylphenol | 350 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 350 | U |
| 67-72-1 | Hexachloroethane | 350 | U |
| 98-95-3 | Nitrobenzene | 350 | U |
| 78-59-1 | Isophorone | 350 | U |
| 88-75-5 | 2-Nitrophenol | 350 | U |
| 105-67-9 | 2,4-Dimethylphenol | 350 | U |
| 65-85-0 | Benzoic Acid | 870 | U |
| 111-91-1 | bis(2-Chloroethoxy) methane | 350 | U |
| 120-83-2 | 2,4-Dichlorophenol | 350 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 350 | U |
| 91-20-3 | Naphthalene | 350 | U |
| 106-47-6 | 4-Chloroaniline | 350 | U |
| 87-68-3 | Hexachlorobutadiene | 350 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 350 | U |
| 91-57-6 | 2-Methylnaphthalene | 350 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 350 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 350 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 870 | U |
| 91-58-7 | 2-Chloronaphthalene | 350 | U |
| 88-74-4 | 2-Nitroaniline | 870 | U |
| 131-11-3 | Dimethylphthalate | 350 | U |
| 208-96-8 | Acenaphthylene | 170 | J |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7142

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-004

Sample wt/vol: 30.5 (g/mL) g

Lab File ID: DH121.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | | |
|----------------|----------------------------|------|---|
| 606-20-2----- | 2,6-Dinitrotoluene | 350 | U |
| 99-09-2----- | 3-Nitroaniline | 870 | U |
| 83-32-9----- | Acenaphthene | 350 | U |
| 51-28-5----- | 2,4-Dinitrophenol | 870 | U |
| 100-02-7----- | 4-Nitrophenol | 870 | U |
| 132-64-9----- | Dibenzofuran | 350 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 350 | U |
| 84-66-2----- | Diethylphthalate | 350 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 350 | U |
| 86-73-7----- | Fluorene | 350 | U |
| 100-01-6----- | 4-Nitroaniline | 870 | U |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 870 | U |
| 86-30-6----- | N-Nitrosodiphenylamine | 350 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 350 | U |
| 118-74-1----- | Hexachlorobenzene | 350 | U |
| 87-86-5----- | Pentachlorophenol | 870 | U |
| 85-01-8----- | Phenanthrene | 520 | |
| 120-12-7----- | Anthracene | 170 | J |
| 86-74-8----- | Carbazole | 350 | U |
| 84-74-2----- | Di-n-butylphthalate | 350 | U |
| 206-44-0----- | Fluoranthene | 1200 | |
| 92-87-5----- | Benzidine | 350 | U |
| 129-00-0----- | Pyrene | 1600 | |
| 85-68-7----- | Butylbenzylphthalate | 350 | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 350 | U |
| 56-55-3----- | Benzo(a)anthracene | 920 | |
| 218-01-9----- | Chrysene | 960 | |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 350 | U |
| 117-84-0----- | Di-n-octylphthalate | 350 | U |
| 205-99-2----- | Benzo(b)fluoranthene | 1100 | |
| 207-08-9----- | Benzo(k)fluoranthene | 730 | |
| 50-32-8----- | Benzo(a)pyrene | 1200 | |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 1000 | |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7142

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-004

Sample wt/vol: 30.5 (g/mL) g

Lab File ID: DH121.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|---------------|------------------------|-----|---|
| 53-70-3----- | Dibenzo(a,h)anthracene | 220 | J |
| 191-24-2----- | Benzo(g,h,i)perylene | 970 | |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7142

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-004

Sample wt/vol: 30.5 (g/mL) g

Lab File ID: DH121.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICS found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|------------------------------|-------|------------|----|
| 1. | Aldol Product | 5.04 | 1600 | JB |
| 2. | Unknown | 5.45 | 470 | JB |
| 3. | Unknown | 6.31 | 400 | J |
| 4. 0 | METHYL-PHENANTHRENE OR METHY | 14.81 | 290 | J |
| 5. | Phenanthrene, dimethyl- | 16.17 | 310 | J |
| 6. 243174 | 11H-Benzo[b]fluorene | 18.18 | 580 | J |
| 7. | Unknown | 19.70 | 240 | J |
| 8. | Unknown | 21.17 | 240 | J |
| 9. 0 | BENZOFLUORANTHENE | 24.07 | 530 | J |
| 10. 198550 | Perylene | 24.47 | 720 | J |
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7143

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-005

Sample wt/vol: 30.42 (g/mL) g

Lab File ID: ^DH122.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|---------------|------------------------------|-----|---|
| 108-95-2----- | Phenol | 380 | U |
| 62-53-3----- | Aniline | 380 | U |
| 111-44-4----- | bis(2-Chloroethyl) ether | 380 | U |
| 95-57-8----- | 2-Chlorophenol | 380 | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 380 | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 380 | U |
| 100-51-6----- | Benzyl Alcohol | 380 | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 380 | U |
| 95-48-7----- | 2-Methylphenol | 380 | U |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 380 | U |
| 106-44-5----- | 4-Methylphenol | 380 | U |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 380 | U |
| 67-72-1----- | Hexachloroethane | 380 | U |
| 98-95-3----- | Nitrobenzene | 380 | U |
| 78-59-1----- | Isophorone | 380 | U |
| 88-75-5----- | 2-Nitrophenol | 380 | U |
| 105-67-9----- | 2,4-Dimethylphenol | 380 | U |
| 65-85-0----- | Benzoic Acid | 940 | U |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 380 | U |
| 120-83-2----- | 2,4-Dichlorophenol | 380 | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 380 | U |
| 91-20-3----- | Naphthalene | 380 | U |
| 106-47-8----- | 4-Chloroaniline | 380 | U |
| 87-68-3----- | Hexachlorobutadiene | 380 | U |
| 59-50-7----- | 4-Chloro-3-methylphenol | 380 | U |
| 91-57-6----- | 2-Methylnaphthalene | 380 | U |
| 77-47-4----- | Hexachlorocyclopentadiene | 380 | U |
| 88-06-2----- | 2,4,6-Trichlorophenol | 380 | U |
| 95-95-4----- | 2,4,5-Trichlorophenol | 940 | U |
| 91-58-7----- | 2-Chloronaphthalene | 380 | U |
| 88-74-4----- | 2-Nitroaniline | 940 | U |
| 131-11-3----- | Dimethylphthalate | 380 | U |
| 208-96-8----- | Acenaphthylene | 380 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7143

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-005

Sample wt/vol: 30.42 (g/mL) g

Lab File ID: DH122.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|----------------|----------------------------|-----|---|
| 606-20-2----- | 2,6-Dinitrotoluene | 380 | U |
| 99-09-2----- | 3-Nitroaniline | 940 | U |
| 83-32-9----- | Acenaphthene | 380 | U |
| 51-28-5----- | 2,4-Dinitrophenol | 940 | U |
| 100-02-7----- | 4-Nitrophenol | 940 | U |
| 132-64-9----- | Dibenzofuran | 380 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 380 | U |
| 84-66-2----- | Diethylphthalate | 380 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 380 | U |
| 86-73-7----- | Fluorene | 380 | U |
| 100-01-6----- | 4-Nitroaniline | 940 | U |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 940 | U |
| 86-30-6----- | N-Nitrosodiphenylamine | 380 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 380 | U |
| 118-74-1----- | Hexachlorobenzene | 380 | U |
| 87-86-5----- | Pentachlorophenol | 940 | U |
| 85-01-8----- | Phenanthrene | 380 | U |
| 120-12-7----- | Anthracene | 380 | U |
| 86-74-8----- | Carbazole | 380 | U |
| 84-74-2----- | Di-n-butylphthalate | 380 | U |
| 206-44-0----- | Fluoranthene | 380 | U |
| 92-87-5----- | Benzidine | 380 | U |
| 129-00-0----- | Pyrene | 380 | U |
| 85-68-7----- | Butylbenzylphthalate | 380 | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 380 | U |
| 56-55-3----- | Benzo(a)anthracene | 380 | U |
| 218-01-9----- | Chrysene | 380 | U |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 380 | U |
| 117-84-0----- | Di-n-octylphthalate | 380 | U |
| 205-99-2----- | Benzo(b)fluoranthene | 380 | U |
| 207-08-9----- | Benzo(k)fluoranthene | 380 | U |
| 50-32-8----- | Benzo(a)pyrene | 380 | U |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 380 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7143

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-005

Sample wt/vol: 30.42 (g/mL) g

Lab File ID: ^DH122.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | |
|------------------------------------|-----|---|
| 53-70-3-----Dibenzo(a,h)anthracene | 380 | U |
| 191-24-2-----Benzo(g,h,i)perylene | 380 | U |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7143

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-005

Sample wt/vol: 30.42 (g/mL) g

Lab File ID: ^DH122.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICS found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|-------|------------|----|
| 1. | Aldol Product | 5.06 | 1200 | JB |
| 2. | Unknown | 5.46 | 390 | JB |
| 3. | Unknown | 6.32 | 190 | J |
| 4. | Unknown | 21.16 | 620 | J |
| 5. | Unknown | 23.13 | 530 | J |
| 6. | Unknown | 26.34 | 180 | J |
| 7. | Unknown | 27.88 | 180 | J |
| 8. | Unknown | 28.40 | 160 | J |
| 9. | Unknown | 28.50 | 180 | J |
| 10. | Unknown | 30.23 | 880 | J |
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7144

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-006

Sample wt/vol: 30.39 (g/mL) g

Lab File ID: ^DH123.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | | |
|---------------|------------------------------|-----|---|
| 108-95-2----- | Phenol | 360 | U |
| 62-53-3----- | Aniline | 360 | U |
| 111-44-4----- | bis(2-Chloroethyl) ether | 360 | U |
| 95-57-8----- | 2-Chlorophenol | 360 | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 360 | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 360 | U |
| 100-51-6----- | Benzyl Alcohol | 360 | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 360 | U |
| 95-48-7----- | 2-Methylphenol | 360 | U |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 360 | U |
| 106-44-5----- | 4-Methylphenol | 360 | U |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 360 | U |
| 67-72-1----- | Hexachloroethane | 360 | U |
| 98-95-3----- | Nitrobenzene | 360 | U |
| 78-59-1----- | Isophorone | 360 | U |
| 88-75-5----- | 2-Nitrophenol | 360 | U |
| 105-67-9----- | 2,4-Dimethylphenol | 360 | U |
| 65-85-0----- | Benzoic Acid | 890 | U |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 360 | U |
| 120-83-2----- | 2,4-Dichlorophenol | 360 | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 360 | U |
| 91-20-3----- | Naphthalene | 88 | U |
| 106-47-8----- | 4-Chloroaniline | 360 | U |
| 87-68-3----- | Hexachlorobutadiene | 360 | U |
| 59-50-7----- | 4-Chloro-3-methylphenol | 360 | U |
| 91-57-6----- | 2-Methylnaphthalene | 360 | U |
| 77-47-4----- | Hexachlorocyclopentadiene | 360 | U |
| 88-06-2----- | 2,4,6-Trichlorophenol | 360 | U |
| 95-95-4----- | 2,4,5-Trichlorophenol | 890 | U |
| 91-58-7----- | 2-Chloronaphthalene | 360 | U |
| 88-74-4----- | 2-Nitroaniline | 890 | U |
| 131-11-3----- | Dimethylphthalate | 360 | U |
| 208-96-8----- | Acenaphthylene | 360 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7144

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-006

Sample wt/vol: 30.39 (g/mL) g

Lab File ID: ^DH123.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|----------------|----------------------------|------|---|
| 606-20-2----- | 2,6-Dinitrotoluene | 360 | U |
| 99-09-2----- | 3-Nitroaniline | 890 | U |
| 83-32-9----- | Acenaphthene | 94 | J |
| 51-28-5----- | 2,4-Dinitrophenol | 890 | U |
| 100-02-7----- | 4-Nitrophenol | 890 | U |
| 132-64-9----- | Dibenzofuran | 360 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 360 | U |
| 84-66-2----- | Diethylphthalate | 360 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 360 | U |
| 86-73-7----- | Fluorene | 80 | J |
| 100-01-6----- | 4-Nitroaniline | 890 | U |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 890 | U |
| 86-30-6----- | N-Nitrosodiphenylamine | 360 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 360 | U |
| 118-74-1----- | Hexachlorobenzene | 360 | U |
| 87-86-5----- | Pentachlorophenol | 890 | U |
| 85-01-8----- | Phenanthrene | 1000 | |
| 120-12-7----- | Anthracene | 240 | J |
| 86-74-8----- | Carbazole | 82 | J |
| 84-74-2----- | Di-n-butylphthalate | 360 | U |
| 206-44-0----- | Fluoranthene | 1200 | |
| 92-87-5----- | Benzidine | 360 | U |
| 129-00-0----- | Pyrene | 1200 | |
| 85-68-7----- | Butylbenzylphthalate | 360 | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 360 | U |
| 56-55-3----- | Benzo(a)anthracene | 660 | |
| 218-01-9----- | Chrysene | 650 | |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 360 | U |
| 117-84-0----- | Di-n-octylphthalate | 360 | U |
| 205-99-2----- | Benzo(b)fluoranthene | 560 | |
| 207-08-9----- | Benzo(k)fluoranthene | 510 | |
| 50-32-8----- | Benzo(a)pyrene | 680 | |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 660 | |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7144

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-006

Sample wt/vol: 30.39 (g/mL) g

Lab File ID: DH123.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | | |
|---------------|------------------------|-----|---|
| 53-70-3----- | Dibenzo(a,h)anthracene | 200 | J |
| 191-24-2----- | Benzo(g,h,i)perylene | 590 | |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7144

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-006

Sample wt/vol: 30.39 (g/mL) g

Lab File ID: DH123.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICS found: 10

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|------------------------------|-------|------------|----|
| 1. | Aldol Product | 5.03 | 1400 | JB |
| 2. | Unknown | 5.45 | 300 | JB |
| 3. | Unknown | 6.31 | 200 | J |
| 4. 0 | METHYL-PHENANTHRENE OR METHY | 14.50 | 200 | J |
| 5. 203645 | 4H-Cyclopenta[def]phenanthre | 14.77 | 230 | J |
| 6. | Unknown | 17.16 | 190 | J |
| 7. 205823 | Benzo[j]fluoranthene | 24.06 | 280 | J |
| 8. 198550 | Perylene | 24.46 | 470 | J |
| 9. 629925 | Nonadecane | 24.94 | 240 | J |
| 10. 0 | DIBENZO[A,K]PYRENE | 30.16 | 190 | J |
| 11. | | | | |
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7225 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-008DL

Sample wt/vol: 30.09 (g/mL) g

Lab File ID: ^DH153.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|---------------|------------------------------|-------|-----|
| 108-95-2----- | Phenol | 7400 | U D |
| 62-53-3----- | Aniline | 7400 | U D |
| 111-44-4----- | bis(2-Chloroethyl) ether | 7400 | U D |
| 95-57-8----- | 2-Chlorophenol | 7400 | U D |
| 541-73-1----- | 1,3-Dichlorobenzene | 7400 | U D |
| 106-46-7----- | 1,4-Dichlorobenzene | 7400 | U D |
| 100-51-6----- | Benzyl Alcohol | 7400 | U D |
| 95-50-1----- | 1,2-Dichlorobenzene | 7400 | U D |
| 95-48-7----- | 2-Methylphenol | 7400 | U D |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 7400 | U D |
| 106-44-5----- | 4-Methylphenol | 7400 | U D |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 7400 | U D |
| 67-72-1----- | Hexachloroethane | 7400 | U D |
| 98-95-3----- | Nitrobenzene | 7400 | U D |
| 78-59-1----- | Isophorone | 7400 | U D |
| 88-75-5----- | 2-Nitrophenol | 7400 | U D |
| 105-67-9----- | 2,4-Dimethylphenol | 7400 | U D |
| 65-85-0----- | Benzoic Acid | 18000 | U D |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 7400 | U D |
| 120-83-2----- | 2,4-Dichlorophenol | 7400 | U D |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 7400 | U D |
| 91-20-3----- | Naphthalene | 7400 | U D |
| 106-47-8----- | 4-Chloroaniline | 7400 | U D |
| 87-68-3----- | Hexachlorobutadiene | 7400 | U D |
| 59-50-7----- | 4-Chloro-3-methylphenol | 7400 | U D |
| 91-57-6----- | 2-Methylnaphthalene | 7400 | U D |
| 77-47-4----- | Hexachlorocyclopentadiene | 7400 | U D |
| 88-06-2----- | 2,4,6-Trichlorophenol | 7400 | U D |
| 95-95-4----- | 2,4,5-Trichlorophenol | 18000 | U D |
| 91-58-7----- | 2-Chloronaphthalene | 7400 | U D |
| 88-74-4----- | 2-Nitroaniline | 18000 | U D |
| 131-11-3----- | Dimethylphthalate | 7400 | U D |
| 208-96-8----- | Acenaphthylene | 7400 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7225 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-008 DL

Sample wt/vol: 30.09 (g/mL) g

Lab File ID: DH153.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | | |
|----------------|----------------------------|-------|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 7400 | U D |
| 99-09-2----- | 3-Nitroaniline | 18000 | U D |
| 83-32-9----- | Acenaphthene | 7400 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 18000 | U D |
| 100-02-7----- | 4-Nitrophenol | 18000 | U D |
| 132-64-9----- | Dibenzofuran | 7400 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 7400 | U D |
| 84-66-2----- | Diethylphthalate | 7400 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 7400 | U D |
| 86-73-7----- | Fluorene | 7400 | U D |
| 100-01-6----- | 4-Nitroaniline | 18000 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 18000 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 7400 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 7400 | U D |
| 118-74-1----- | Hexachlorobenzene | 7400 | U D |
| 87-86-5----- | Pentachlorophenol | 18000 | U D |
| 85-01-8----- | Phenanthrene | 5400 | JD |
| 120-12-7----- | Anthracene | 1300 | JD |
| 86-74-8----- | Carbazole | 7400 | U D |
| 84-74-2----- | Di-n-butylphthalate | 7400 | U D |
| 206-44-0----- | Fluoranthene | 4800 | JD |
| 92-87-5----- | Benzidine | 7400 | U D |
| 129-00-0----- | Pyrene | 6500 | JD |
| 85-68-7----- | Butylbenzylphthalate | 7400 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 7400 | U D |
| 56-55-3----- | Benzo(a)anthracene | 2700 | JD |
| 218-01-9----- | Chrysene | 2800 | JD |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 7400 | U D |
| 117-84-0----- | Di-n-octylphthalate | 7400 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 2200 | JD |
| 207-08-9----- | Benzo(k)fluoranthene | 7400 | U D |
| 50-32-8----- | Benzo(a)pyrene | 2400 | JD |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 7400 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7225 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-008 *DL*

Sample wt/vol: 30.09 (g/mL) g

Lab File ID: DH153.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | |
|------------------------------------|------|-----|
| 53-70-3-----Dibenzo(a,h)anthracene | 7400 | U D |
| 191-24-2-----Benzo(g,h,i)perylene | 1400 | JD |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7226

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-009

Sample wt/vol: 30.15 (g/mL) g

Lab File ID: DH118.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | | |
|----------|------------------------------|-----|---|
| 108-95-2 | Phenol | 360 | U |
| 62-53-3 | Aniline | 360 | U |
| 111-44-4 | bis(2-Chloroethyl) ether | 360 | U |
| 95-57-8 | 2-Chlorophenol | 360 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 360 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 360 | U |
| 100-51-6 | Benzyl Alcohol | 360 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 360 | U |
| 95-48-7 | 2-Methylphenol | 360 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 360 | U |
| 106-44-5 | 4-Methylphenol | 360 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 360 | U |
| 67-72-1 | Hexachloroethane | 360 | U |
| 98-95-3 | Nitrobenzene | 360 | U |
| 78-59-1 | Isophorone | 360 | U |
| 88-75-5 | 2-Nitrophenol | 360 | U |
| 105-67-9 | 2,4-Dimethylphenol | 360 | U |
| 65-85-0 | Benzoic Acid | 910 | U |
| 111-91-1 | bis(2-Chloroethoxy) methane | 360 | U |
| 120-83-2 | 2,4-Dichlorophenol | 360 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 360 | U |
| 91-20-3 | Naphthalene | 360 | U |
| 106-47-8 | 4-Chloroaniline | 360 | U |
| 87-68-3 | Hexachlorobutadiene | 360 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 360 | U |
| 91-57-6 | 2-Methylnaphthalene | 360 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 360 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 360 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 910 | U |
| 91-58-7 | 2-Chloronaphthalene | 360 | U |
| 88-74-4 | 2-Nitroaniline | 910 | U |
| 131-11-3 | Dimethylphthalate | 360 | U |
| 208-96-8 | Acenaphthylene | 360 | U |

1C.
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7226

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-009

Sample wt/vol: 30.15 (g/mL) g

Lab File ID: DH118.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|-----------|----------------------------|---|---|
| 606-20-2 | 2,6-Dinitrotoluene | 360 | U |
| 99-09-2 | 3-Nitroaniline | 910 | U |
| 83-32-9 | Acenaphthene | 360 | U |
| 51-28-5 | 2,4-Dinitrophenol | 910 | U |
| 100-02-7 | 4-Nitrophenol | 910 | U |
| 132-64-9 | Dibenzofuran | 360 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 360 | U |
| 84-66-2 | Diethylphthalate | 360 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 360 | U |
| 86-73-7 | Fluorene | 360 | U |
| 100-01-6 | 4-Nitroaniline | 910 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 910 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 360 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 360 | U |
| 118-74-1 | Hexachlorobenzene | 360 | U |
| 87-86-5 | Pentachlorophenol | 910 | U |
| 85-01-8 | Phenanthrene | 360 | U |
| 120-12-7 | Anthracene | 360 | U |
| 86-74-8 | Carbazole | 360 | U |
| 84-74-2 | Di-n-butylphthalate | 360 | U |
| 206-44-0 | Fluoranthene | 360 | U |
| 92-87-5 | Benizidine | 360 | U |
| 129-00-0 | Pyrene | 360 | U |
| 85-68-7 | Butylbenzylphthalate | 360 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 360 | U |
| 56-55-3 | Benzo(a)anthracene | 360 | U |
| 218-01-9 | Chrysene | 360 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 360 | U |
| 117-84-0 | Di-n-octylphthalate | 360 | U |
| 205-99-2 | Benzo(b)fluoranthene | 360 | U |
| 207-08-9 | Benzo(k)fluoranthene | 360 | U |
| 50-32-8 | Benzo(a)pyrene | 360 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 360 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7226

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-009

Sample wt/vol: 30.15 (g/mL) g

Lab File ID: DH118.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---------|----------|---|---|
|---------|----------|---|---|

| | | | |
|---------------|------------------------|-----|---|
| 53-70-3----- | Dibenzo(a,h)anthracene | 360 | U |
| 191-24-2----- | Benzo(g,h,i)perylene | 360 | U |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7226

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-009

Sample wt/vol: 30.15 (g/mL) g

Lab File ID: ^DH118.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICS found: 10

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC | Q |
|------------|---------------------|------|-----------|----|
| 1. | Aldol Product | 5.03 | 1700 | JB |
| 2. | Unknown | 5.87 | 350 | J |
| 3. | Unknown Hydrocarbon | 7.77 | 470 | J |
| 4. 629505 | Tridecane | 7.97 | 450 | J |
| 5. | Unknown Hydrocarbon | 8.11 | 340 | J |
| 6. | Unknown | 8.35 | 270 | J |
| 7. 629594 | Tetradecane | 8.80 | 420 | J |
| 8. | Unknown | 9.14 | 420 | J |
| 9. | Unknown | 9.26 | 240 | J |
| 10. | Unknown Hydrocarbon | 9.40 | 610 | J |
| 11. | | | | |
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| 29. | | | | |
| 30. | | | | |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7227 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-010 DL

Sample wt/vol: 30.27 (g/mL) g

Lab File ID: DH150.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | | |
|----------|------------------------------|------|-----|
| 108-95-2 | Phenol | 1900 | U D |
| 62-53-3 | Aniline | 1900 | U D |
| 111-44-4 | bis(2-Chloroethyl) ether | 1900 | U D |
| 95-57-8 | 2-Chlorophenol | 1900 | U D |
| 541-73-1 | 1,3-Dichlorobenzene | 1900 | U D |
| 106-46-7 | 1,4-Dichlorobenzene | 1900 | U D |
| 100-51-6 | Benzyl Alcohol | 1900 | U D |
| 95-50-1 | 1,2-Dichlorobenzene | 1900 | U D |
| 95-48-7 | 2-Methylphenol | 1900 | U D |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 1900 | U D |
| 106-44-5 | 4-Methylphenol | 1900 | U D |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1900 | U D |
| 67-72-1 | Hexachloroethane | 1900 | U D |
| 98-95-3 | Nitrobenzene | 1900 | U D |
| 78-59-1 | Isophorone | 1900 | U D |
| 88-75-5 | 2-Nitrophenol | 1900 | U D |
| 105-67-9 | 2,4-Dimethylphenol | 1900 | U D |
| 65-85-0 | Benzoic Acid | 4800 | U D |
| 111-91-1 | bis(2-Chloroethoxy) methane | 1900 | U D |
| 120-83-2 | 2,4-Dichlorophenol | 1900 | U D |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1900 | U D |
| 91-20-3 | Naphthalene | 1900 | U D |
| 106-47-8 | 4-Chloroaniline | 1900 | U D |
| 87-68-3 | Hexachlorobutadiene | 1900 | U D |
| 59-50-7 | 4-Chloro-3-methylphenol | 1900 | U D |
| 91-57-6 | 2-Methylnaphthalene | 1900 | U D |
| 77-47-4 | Hexachlorocyclopentadiene | 1900 | U D |
| 88-06-2 | 2,4,6-Trichlorophenol | 1900 | U D |
| 95-95-4 | 2,4,5-Trichlorophenol | 4800 | U D |
| 91-58-7 | 2-Chloronaphthalene | 1900 | U D |
| 88-74-4 | 2-Nitroaniline | 4800 | U D |
| 131-11-3 | Dimethylphthalate | 1900 | U D |
| 208-96-8 | Acenaphthylene | 1900 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7227 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-010 DL

Sample wt/vol: 30.27 (g/mL) g

Lab File ID: ^DH150.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|----------------|----------------------------|------|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 1900 | U D |
| 99-09-2----- | 3-Nitroaniline | 4800 | U D |
| 83-32-9----- | Acenaphthene | 1900 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 4800 | U D |
| 100-02-7----- | 4-Nitrophenol | 4800 | U D |
| 132-64-9----- | Dibenzofuran | 1900 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 1900 | U D |
| 84-66-2----- | Diethylphthalate | 660 | JD |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 1900 | U D |
| 86-73-7----- | Fluorene | 1900 | U D |
| 100-01-6----- | 4-Nitroaniline | 4800 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 4800 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 1900 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 1900 | U D |
| 118-74-1----- | Hexachlorobenzene | 1900 | U D |
| 87-86-5----- | Pentachlorophenol | 4800 | U D |
| 85-01-8----- | Phenanthrene | 1900 | U D |
| 120-12-7----- | Anthracene | 1900 | U D |
| 86-74-8----- | Carbazole | 1900 | U D |
| 84-74-2----- | Di-n-butylphthalate | 1900 | U D |
| 206-44-0----- | Fluoranthene | 280 | JD |
| 92-87-5----- | Benzidine | 1900 | U D |
| 129-00-0----- | Pyrene | 310 | JD |
| 85-68-7----- | Butylbenzylphthalate | 1900 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 1900 | U D |
| 56-55-3----- | Benzo(a)anthracene | 1900 | U D |
| 218-01-9----- | Chrysene | 1900 | U D |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 1900 | U D |
| 117-84-0----- | Di-n-octylphthalate | 1900 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 1900 | U D |
| 207-08-9----- | Benzo(k)fluoranthene | 1900 | U D |
| 50-32-8----- | Benzo(a)pyrene | 280 | JD |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 1900 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7227 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-010 *DL*

Sample wt/vol: 30.27 (g/mL) g

Lab File ID: DH150.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| | | |
|------------------------------------|------|-----|
| 53-70-3-----Dibenzo(a,h)anthracene | 1900 | U D |
| 191-24-2-----Benzo(g,h,i)perylene | 1900 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7228 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-011 DL

Sample wt/vol: 30.18 (g/mL) g

Lab File ID: ^DH151.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---------------|------------------------------|---|-----|
| 108-95-2----- | Phenol | 1900 | U D |
| 62-53-3----- | Aniline | 1900 | U D |
| 111-44-4----- | bis(2-Chloroethyl) ether | 1900 | U D |
| 95-57-8----- | 2-Chlorophenol | 1900 | U D |
| 541-73-1----- | 1,3-Dichlorobenzene | 1900 | U D |
| 106-46-7----- | 1,4-Dichlorobenzene | 1900 | U D |
| 100-51-6----- | Benzyl Alcohol | 1900 | U D |
| 95-50-1----- | 1,2-Dichlorobenzene | 1900 | U D |
| 95-48-7----- | 2-Methylphenol | 1900 | U D |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 1900 | U D |
| 106-44-5----- | 4-Methylphenol | 1900 | U D |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 1900 | U D |
| 67-72-1----- | Hexachloroethane | 1900 | U D |
| 98-95-3----- | Nitrobenzene | 1900 | U D |
| 78-59-1----- | Isophorone | 1900 | U D |
| 88-75-5----- | 2-Nitrophenol | 1900 | U D |
| 105-67-9----- | 2,4-Dimethylphenol | 1900 | U D |
| 65-85-0----- | Benzoic Acid | 4800 | U D |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 1900 | U D |
| 120-83-2----- | 2,4-Dichlorophenol | 1900 | U D |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 1900 | U D |
| 91-20-3----- | Naphthalene | 1900 | U D |
| 106-47-8----- | 4-Chloroaniline | 1900 | U D |
| 87-68-1----- | Hexachlorobutadiene | 1900 | U D |
| 59-50-7----- | 4-Chloro-3-methylphenol | 1900 | U D |
| 91-57-6----- | 2-Methylnaphthalene | 1900 | U D |
| 77-47-4----- | Hexachlorocyclopentadiene | 1900 | U D |
| 88-06-2----- | 2,4,6-Trichlorophenol | 1900 | U D |
| 95-95-4----- | 2,4,5-Trichlorophenol | 4800 | U D |
| 91-58-7----- | 2-Chloronaphthalene | 1900 | U D |
| 88-74-4----- | 2-Nitroaniline | 4800 | U D |
| 131-11-3----- | Dimethylphthalate | 1900 | U D |
| 208-96-8----- | Acenaphthylene | 1900 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7228 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-011 DL

Sample wt/vol: 30.18 (g/mL) g

Lab File ID: DH151.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|----------------|----------------------------|------|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 1900 | U D |
| 99-09-2----- | 3-Nitroaniline | 4800 | U D |
| 83-32-9----- | Acenaphthene | 1900 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 4800 | U D |
| 100-02-7----- | 4-Nitrophenol | 4800 | U D |
| 132-64-9----- | Dibenzofuran | 1900 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 1900 | U D |
| 84-66-2----- | Diethylphthalate | 1900 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 1900 | U D |
| 86-73-7----- | Fluorene | 1900 | U D |
| 100-01-6----- | 4-Nitroaniline | 4800 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 4800 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 1900 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 1900 | U D |
| 118-74-1----- | Hexachlorobenzene | 1900 | U D |
| 87-86-5----- | Pentachlorophenol | 4800 | U D |
| 85-01-8----- | Phenanthrene | 1800 | JD |
| 120-12-7----- | Anthracene | 370 | JD |
| 86-74-8----- | Carbazole | 1900 | U D |
| 84-74-2----- | Di-n-butylphthalate | 1900 | U D |
| 206-44-0----- | Fluoranthene | 1800 | JD |
| 92-87-5----- | Benzidine | 1900 | U D |
| 129-00-0----- | Pyrene | 1600 | JD |
| 85-68-7----- | Butylbenzylphthalate | 1900 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 1900 | U D |
| 56-55-3----- | Benzo(a)anthracene | 740 | JD |
| 218-01-9----- | Chrysene | 770 | JD |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 1900 | U D |
| 117-84-0----- | Di-n-octylphthalate | 1900 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 640 | JD |
| 207-08-9----- | Benzo(k)fluoranthene | 550 | JD |
| 50-32-8----- | Benzo(a)pyrene | 660 | JD |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 1900 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7228 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-011 DL

Sample wt/vol: 30.18 (g/mL) g

Lab File ID: DH151.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

| | | |
|------------------------------------|------|-----|
| 53-70-3-----Dibenzo(a,h)anthracene | 1900 | U D |
| 191-24-2-----Benzo(g,h,i)perylene | 320 | JD |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7229 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-012 DL

Sample wt/vol: 30.27 (g/mL) g

Lab File ID: DH116.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|---------------|------------------------------|------|-----|
| 108-95-2----- | Phenol | 2300 | U D |
| 62-53-3----- | Aniline | 2300 | U D |
| 111-44-4----- | bis(2-Chloroethyl) ether | 2300 | U D |
| 95-57-8----- | 2-Chlorophenol | 2300 | U D |
| 541-73-1----- | 1,3-Dichlorobenzene | 2300 | U D |
| 106-46-7----- | 1,4-Dichlorobenzene | 2300 | U D |
| 100-51-6----- | Benzyl Alcohol | 2300 | U D |
| 95-50-1----- | 1,2-Dichlorobenzene | 2300 | U D |
| 95-48-7----- | 2-Methylphenol | 2300 | U D |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 2300 | U D |
| 106-44-5----- | 4-Methylphenol | 2300 | U D |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 2300 | U D |
| 67-72-1----- | Hexachloroethane | 2300 | U D |
| 98-95-3----- | Nitrobenzene | 2300 | U D |
| 78-59-1----- | Isophorone | 2300 | U D |
| 88-75-5----- | 2-Nitrophenol | 2300 | U D |
| 105-67-9----- | 2,4-Dimethylphenol | 2300 | U D |
| 65-85-0----- | Benzoic Acid | 5600 | U D |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 2300 | U D |
| 120-83-2----- | 2,4-Dichlorophenol | 2300 | U D |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 2300 | U D |
| 91-20-3----- | Naphthalene | 2300 | U D |
| 106-47-8----- | 4-Chloroaniline | 2300 | U D |
| 87-68-3----- | Hexachlorobutadiene | 2300 | U D |
| 59-50-7----- | 4-Chloro-3-methylphenol | 2300 | U D |
| 91-57-6----- | 2-Methylnaphthalene | 2300 | U D |
| 77-47-4----- | Hexachlorocyclopentadiene | 2300 | U D |
| 88-06-2----- | 2,4,6-Trichlorophenol | 2300 | U D |
| 95-95-4----- | 2,4,5-Trichlorophenol | 5600 | U D |
| 91-58-7----- | 2-Chloronaphthalene | 2300 | U D |
| 88-74-4----- | 2-Nitroaniline | 5600 | U D |
| 131-11-3----- | Dimethylphthalate | 2300 | U D |
| 208-96-8----- | Acenaphthylene | 2300 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7229 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-012 DL

Sample wt/vol: 30.27 (g/mL) g

Lab File ID: DH116.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | | |
|----------------|----------------------------|------|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 2300 | U D |
| 99-09-2----- | 3-Nitroaniline | 5600 | U D |
| 83-32-9----- | Acenaphthene | 2300 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 5600 | U D |
| 100-02-7----- | 4-Nitrophenol | 5600 | U D |
| 132-64-9----- | Dibenzofuran | 2300 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 2300 | U D |
| 84-66-2----- | Diethylphthalate | 2300 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 2300 | U D |
| 86-73-7----- | Fluorene | 2300 | U D |
| 100-01-6----- | 4-Nitroaniline | 5600 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 5600 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 2300 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 2300 | U D |
| 118-74-1----- | Hexachlorobenzene | 2300 | U D |
| 87-86-5----- | Pentachlorophenol | 5600 | U D |
| 85-01-8----- | Phenanthrene | 2300 | U D |
| 120-12-7----- | Anthracene | 2300 | U D |
| 86-74-8----- | Carbazole | 2300 | U D |
| 84-74-2----- | Di-n-butylphthalate | 2300 | U D |
| 206-44-0----- | Fluoranthene | 280 | JD |
| 92-87-5----- | Benzidine | 2300 | U D |
| 129-00-0----- | Pyrene | 2300 | U D |
| 85-68-7----- | Butylbenzylphthalate | 2300 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 2300 | U D |
| 56-55-3----- | Benzo(a)anthracene | 2300 | U D |
| 218-01-9----- | Chrysene | 2300 | U D |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 2300 | U D |
| 117-84-0----- | Di-n-octylphthalate | 2300 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 2300 | U D |
| 207-08-9----- | Benzo(k)fluoranthene | 2300 | U D |
| 50-32-8----- | Benzo(a)pyrene | 2300 | U D |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 2300 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7229 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-012 *DL*

Sample wt/vol: 30.27 (g/mL) g

Lab File ID: ^DH116.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---------|----------|---|---|
|---------|----------|---|---|

| | | | |
|---------------|------------------------|------|-----|
| 53-70-3----- | Dibenzo(a,h)anthracene | 2300 | U D |
| 191-24-2----- | Benzo(g,h,i)perylene | 2300 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7230

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-013

Sample wt/vol: 30.23 (g/mL) g

Lab File ID: DH112.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|----------|------------------------------|---|---|
| 108-95-2 | Phenol | 360 | U |
| 62-53-3 | Aniline | 360 | U |
| 111-44-4 | bis(2-Chloroethyl) ether | 360 | U |
| 95-57-8 | 2-Chlorophenol | 360 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 360 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 360 | U |
| 100-51-6 | Benzyl Alcohol | 360 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 360 | U |
| 95-48-7 | 2-Methylphenol | 360 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 360 | U |
| 106-44-5 | 4-Methylphenol | 360 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 360 | U |
| 67-72-1 | Hexachloroethane | 360 | U |
| 98-95-3 | Nitrobenzene | 360 | U |
| 78-59-1 | Isophorone | 360 | U |
| 88-75-5 | 2-Nitrophenol | 360 | U |
| 105-67-9 | 2,4-Dimethylphenol | 360 | U |
| 65-85-0 | Benzoic Acid | 890 | U |
| 111-91-1 | bis(2-Chloroethoxy) methane | 360 | U |
| 120-83-2 | 2,4-Dichlorophenol | 360 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 360 | U |
| 91-20-3 | Naphthalene | 360 | U |
| 106-47-8 | 4-Chloroaniline | 360 | U |
| 87-68-3 | Hexachlorobutadiene | 360 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 360 | U |
| 91-57-6 | 2-Methylnaphthalene | 360 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 360 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 360 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 890 | U |
| 91-58-7 | 2-Chloronaphthalene | 360 | U |
| 88-74-4 | 2-Nitroaniline | 890 | U |
| 131-11-3 | Dimethylphthalate | 360 | U |
| 208-96-8 | Acenaphthylene | 360 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7230

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-013

Sample wt/vol: 30.23 (g/mL) g

Lab File ID: ^DH112.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

| | | | |
|---------|----------|---|---|
| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---------|----------|---|---|

| | | | |
|----------------|----------------------------|-----|---|
| 606-20-2----- | 2,6-Dinitrotoluene | 360 | U |
| 99-09-2----- | 3-Nitroaniline | 890 | U |
| 83-32-9----- | Acenaphthene | 360 | U |
| 51-28-5----- | 2,4-Dinitrophenol | 890 | U |
| 100-02-7----- | 4-Nitrophenol | 890 | U |
| 132-64-9----- | Dibenzofuran | 360 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 360 | U |
| 84-66-2----- | Diethylphthalate | 360 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 360 | U |
| 86-73-7----- | Fluorene | 360 | U |
| 100-01-6----- | 4-Nitroaniline | 890 | U |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 890 | U |
| 86-30-6----- | N-Nitrosodiphenylamine | 360 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 360 | U |
| 118-74-1----- | Hexachlorobenzene | 360 | U |
| 87-86-5----- | Pentachlorophenol | 890 | U |
| 85-01-8----- | Phenanthrene | 360 | U |
| 120-12-7----- | Anthracene | 360 | U |
| 86-74-8----- | Carbazole | 360 | U |
| 84-74-2----- | Di-n-butylphthalate | 360 | U |
| 206-44-0----- | Fluoranthene | 360 | U |
| 92-87-5----- | Benzidine | 360 | U |
| 129-00-0----- | Pyrene | 360 | U |
| 85-68-7----- | Butylbenzylphthalate | 360 | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 360 | U |
| 56-55-3----- | Benzo(a)anthracene | 360 | U |
| 218-01-9----- | Chrysene | 360 | U |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 360 | U |
| 117-84-0----- | Di-n-octylphthalate | 360 | U |
| 205-99-2----- | Benzo(b)fluoranthene | 360 | U |
| 207-08-9----- | Benzo(k)fluoranthene | 360 | U |
| 50-32-8----- | Benzo(a)pyrene | 360 | U |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 360 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7230

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-013

Sample wt/vol: 30.23 (g/mL) g

Lab File ID: DH112.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| | | |
|------------------------------------|-----|---|
| 53-70-3-----Dibenzo(a,h)anthracene | 360 | U |
| 191-24-2-----Benzo(g,h,i)perylene | 360 | U |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7230

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-013

Sample wt/vol: 30.23 (g/mL) g

Lab File ID: ^DH112.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICS found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|------|------------|----|
| 1. | Aldol Product | 5.04 | 1900 | JB |
| 2. | Unknown | 5.23 | 270 | J |
| 3. | Unknown | 5.42 | 220 | JB |
| 4. | Unknown | 5.45 | 290 | J |
| 5. | Unknown | 6.31 | 170 | J |
| 6. | Unknown | 6.92 | 160 | JB |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7231 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-014 *DL*

Sample wt/vol: 30.04 (g/mL) g

Lab File ID: DH152.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | | |
|---------------|------------------------------|-------|-----|
| 108-95-2----- | Phenol | 4100 | U D |
| 62-53-3----- | Aniline | 4100 | U D |
| 111-44-4----- | bis(2-Chloroethyl)ether | 4100 | U D |
| 95-57-8----- | 2-Chlorophenol | 4100 | U D |
| 541-73-1----- | 1,3-Dichlorobenzene | 4100 | U D |
| 106-46-7----- | 1,4-Dichlorobenzene | 4100 | U D |
| 100-51-6----- | Benzyl Alcohol | 4100 | U D |
| 95-50-1----- | 1,2-Dichlorobenzene | 4100 | U D |
| 95-48-7----- | 2-Methylphenol | 4100 | U D |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 4100 | U D |
| 106-44-5----- | 4-Methylphenol | 4100 | U D |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 4100 | U D |
| 67-72-1----- | Hexachloroethane | 4100 | U D |
| 98-95-3----- | Nitrobenzene | 4100 | U D |
| 78-59-1----- | Isophorone | 4100 | U D |
| 88-75-5----- | 2-Nitrophenol | 4100 | U D |
| 105-67-9----- | 2,4-Dimethylphenol | 4100 | U D |
| 65-85-0----- | Benzoic Acid | 10000 | U D |
| 111-91-1----- | bis(2-Chloroethoxy)methane | 4100 | U D |
| 120-83-2----- | 2,4-Dichlorophenol | 4100 | U D |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 4100 | U D |
| 91-20-3----- | Naphthalene | 4100 | U D |
| 106-47-8----- | 4-Chloroaniline | 4100 | U D |
| 87-68-3----- | Hexachlorobutadiene | 4100 | U D |
| 59-50-7----- | 4-Chloro-3-methylphenol | 4100 | U D |
| 91-57-6----- | 2-Methylnaphthalene | 4100 | U D |
| 77-47-4----- | Hexachlorocyclopentadiene | 4100 | U D |
| 88-06-2----- | 2,4,6-Trichlorophenol | 4100 | U D |
| 95-95-4----- | 2,4,5-Trichlorophenol | 10000 | U D |
| 91-58-7----- | 2-Chloronaphthalene | 4100 | U D |
| 88-74-4----- | 2-Nitroaniline | 10000 | U D |
| 131-11-3----- | Dimethylphthalate | 4100 | U D |
| 208-96-8----- | Acenaphthylene | 4100 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7231 *α*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code: Case No.: 1

SAS No.: SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-014 *α*

Sample wt/vol: 30.04 (g/mL) g

Lab File ID: DH152.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| | | | |
|----------------|----------------------------|-------|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 4100 | U D |
| 99-09-2----- | 3-Nitroaniline | 10000 | U D |
| 83-32-9----- | Acenaphthene | 4100 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 10000 | U D |
| 100-02-7----- | 4-Nitrophenol | 10000 | U D |
| 132-64-9----- | Dibenzofuran | 4100 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 4100 | U D |
| 84-66-2----- | Diethylphthalate | 4100 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 4100 | U D |
| 86-73-7----- | Fluorene | 970 | JD |
| 100-01-6----- | 4-Nitroaniline | 10000 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 10000 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 4100 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 4100 | U D |
| 118-74-1----- | Hexachlorobenzene | 4100 | U D |
| 87-86-5----- | Pentachlorophenol | 10000 | U D |
| 85-01-8----- | Phenanthrene | 11000 | D |
| 120-12-7----- | Anthracene | 2300 | JD |
| 86-74-8----- | Carbazole | 880 | JD |
| 84-74-2----- | Di-n-butylphthalate | 4100 | U D |
| 206-44-0----- | Fluoranthene | 15000 | D |
| 92-87-5----- | Benzidine | 4100 | U D |
| 129-00-0----- | Pyrene | 16000 | D |
| 85-68-7----- | Butylbenzylphthalate | 4100 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 4100 | U D |
| 56-55-3----- | Benzo(a)anthracene | 6600 | D |
| 218-01-9----- | Chrysene | 6300 | D |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 1700 | JD |
| 117-84-0----- | Di-n-octylphthalate | 4100 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 5200 | D |
| 207-08-9----- | Benzo(k)fluoranthene | 5300 | D |
| 50-32-8----- | Benzo(a)pyrene | 5900 | D |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 3500 | JD |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7231 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-014 *DL*

Sample wt/vol: 30.04 (g/mL) g

Lab File ID: ^DH152.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | |
|------------------------------------|------|-----|
| 53-70-3-----Dibenzo(a,h)anthracene | 4100 | U D |
| 191-24-2-----Benzo(g,h,i)perylene | 3100 | JD |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7232

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-015

Sample wt/vol: 30.18 (g/mL) g

Lab File ID: DH119.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 43 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|---------------|------------------------------|------|---|
| 108-95-2----- | Phenol | 580 | U |
| 62-53-3----- | Aniline | 580 | U |
| 111-44-4----- | bis(2-Chloroethyl)ether | 580 | U |
| 95-57-8----- | 2-Chlorophenol | 580 | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 580 | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 580 | U |
| 100-51-6----- | Benzyl Alcohol | 580 | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 580 | U |
| 95-48-7----- | 2-Methylphenol | 580 | U |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 580 | U |
| 106-44-5----- | 4-Methylphenol | 580 | U |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 580 | U |
| 67-72-1----- | Hexachloroethane | 580 | U |
| 98-95-3----- | Nitrobenzene | 580 | U |
| 78-59-1----- | Isophorone | 580 | U |
| 88-75-5----- | 2-Nitrophenol | 580 | U |
| 105-67-9----- | 2,4-Dimethylphenol | 580 | U |
| 65-85-0----- | Benzoic Acid | 1400 | |
| 111-91-1----- | bis(2-Chloroethoxy)methane | 580 | U |
| 120-83-2----- | 2,4-Dichlorophenol | 580 | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 580 | U |
| 91-20-3----- | Naphthalene | 580 | U |
| 106-47-8----- | 4-Chloroaniline | 580 | U |
| 87-68-3----- | Hexachlorobutadiene | 580 | U |
| 59-50-7----- | 4-Chloro-3-methylphenol | 580 | U |
| 91-57-6----- | 2-Methylnaphthalene | 580 | U |
| 77-47-4----- | Hexachlorocyclopentadiene | 580 | U |
| 88-06-2----- | 2,4,6-Trichlorophenol | 580 | U |
| 95-95-4----- | 2,4,5-Trichlorophenol | 1400 | U |
| 91-58-7----- | 2-Chloronaphthalene | 580 | U |
| 88-74-4----- | 2-Nitroaniline | 1400 | U |
| 131-11-3----- | Dimethylphthalate | 580 | U |
| 208-96-8----- | Acenaphthylene | 580 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7232

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-015

Sample wt/vol: 30.18 (g/mL) g

Lab File ID: ^DH119.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 43 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.

COMPOUND

| | | | |
|----------------|----------------------------|------|---|
| 606-20-2----- | 2,6-Dinitrotoluene | 580 | U |
| 99-09-2----- | 3-Nitroaniline | 1400 | U |
| 83-32-9----- | Acenaphthene | 580 | U |
| 51-28-5----- | 2,4-Dinitrophenol | 1400 | U |
| 100-02-7----- | 4-Nitrophenol | 1400 | U |
| 132-64-9----- | Dibenzofuran | 580 | U |
| 121-14-2----- | 2,4-Dinitrotoluene | 580 | U |
| 84-66-2----- | Diethylphthalate | 580 | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 580 | U |
| 86-73-7----- | Fluorene | 580 | U |
| 100-01-6----- | 4-Nitroaniline | 1400 | U |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 1400 | U |
| 86-30-6----- | N-Nitrosodiphenylamine | 580 | U |
| 101-55-3----- | 4-Bromophenyl-phenylether | 580 | U |
| 118-74-1----- | Hexachlorobenzene | 580 | U |
| 87-86-5----- | Pentachlorophenol | 1400 | U |
| 85-01-8----- | Phenanthrene | 160 | J |
| 120-12-7----- | Anthracene | 580 | U |
| 86-74-8----- | Carbazole | 580 | U |
| 84-74-2----- | Di-n-butylphthalate | 580 | U |
| 206-44-0----- | Fluoranthene | 250 | J |
| 92-87-5----- | Benzidine | 580 | U |
| 129-00-0----- | Pyrene | 250 | J |
| 85-68-7----- | Butylbenzylphthalate | 580 | U |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 580 | U |
| 56-55-3----- | Benzo(a)anthracene | 580 | U |
| 218-01-9----- | Chrysene | 140 | J |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 580 | U |
| 117-84-0----- | Di-n-octylphthalate | 580 | U |
| 205-99-2----- | Benzo(b)fluoranthene | 160 | J |
| 207-08-9----- | Benzo(k)fluoranthene | 580 | U |
| 50-32-8----- | Benzo(a)pyrene | 110 | J |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 580 | U |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7232

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-015

Sample wt/vol: 30.18 (g/mL) g

Lab File ID: ^DH119.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 43 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | |
|------------------------------------|-----|---|
| 53-70-3-----Dibenzo(a,h)anthracene | 580 | U |
| 191-24-2-----Benzo(g,h,i)perylene | 120 | J |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7233 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-016 *DL*

Sample wt/vol: 30.15 (g/mL) g

Lab File ID: DH136.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 57 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG . Q

| | | | |
|---------------|------------------------------|------|-----|
| 108-95-2----- | Phenol | 3800 | U D |
| 62-53-3----- | Aniline | 3800 | U D |
| 111-44-4----- | bis(2-Chloroethyl) ether | 3800 | U D |
| 95-57-8----- | 2-Chlorophenol | 3800 | U D |
| 541-73-1----- | 1,3-Dichlorobenzene | 3800 | U D |
| 106-46-7----- | 1,4-Dichlorobenzene | 3800 | U D |
| 100-51-6----- | Benzyl Alcohol | 3800 | U D |
| 95-50-1----- | 1,2-Dichlorobenzene | 3800 | U D |
| 95-48-7----- | 2-Methylphenol | 3800 | U D |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 3800 | U D |
| 106-44-5----- | 4-Methylphenol | 3800 | U D |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 3800 | U D |
| 67-72-1----- | Hexachloroethane | 3800 | U D |
| 98-95-3----- | Nitrobenzene | 3800 | U D |
| 78-59-1----- | Isophorone | 2900 | JD |
| 88-75-5----- | 2-Nitrophenol | 3800 | U D |
| 105-67-9----- | 2,4-Dimethylphenol | 3800 | U D |
| 65-85-0----- | Benzoic Acid | 9600 | U D |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 3800 | U D |
| 120-83-2----- | 2,4-Dichlorophenol | 3800 | U D |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 3800 | U D |
| 91-20-3----- | Naphthalene | 3300 | JD |
| 106-47-8----- | 4-Chloroaniline | 3800 | U D |
| 87-68-3----- | Hexachlorobutadiene | 3800 | U D |
| 59-50-7----- | 4-Chloro-3-methylphenol | 3800 | U D |
| 91-57-6----- | 2-Methylnaphthalene | 7700 | D |
| 77-47-4----- | Hexachlorocyclopentadiene | 3800 | U D |
| 88-06-2----- | 2,4,6-Trichlorophenol | 3800 | U D |
| 95-95-4----- | 2,4,5-Trichlorophenol | 9600 | U D |
| 91-58-7----- | 2-Chloronaphthalene | 3800 | U D |
| 88-74-4----- | 2-Nitroaniline | 9600 | U D |
| 131-11-3----- | Dimethylphthalate | 3800 | U D |
| 208-96-8----- | Acenaphthylene | 3800 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7233 *dx*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-016 *dx*

Sample wt/vol: 30.15 (g/mL) g

Lab File ID: DH136.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 57 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

| CAS NO. | COMPOUND | | |
|----------------|----------------------------|-------|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 3800 | U D |
| 99-09-2----- | 3-Nitroaniline | 9600 | U D |
| 83-32-9----- | Acenaphthene | 3800 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 9600 | U D |
| 100-02-7----- | 4-Nitrophenol | 9600 | U D |
| 132-64-9----- | Dibenzofuran | 3800 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 3800 | U D |
| 84-66-2----- | Diethylphthalate | 3800 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 3800 | U D |
| 86-73-7----- | Fluorene | 1000 | JD |
| 100-01-6----- | 4-Nitroaniline | 9600 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 9600 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 3800 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 3800 | U D |
| 118-74-1----- | Hexachlorobenzene | 3800 | U D |
| 87-86-5----- | Pentachlorophenol | 9600 | U D |
| 85-01-8----- | Phenanthrene | 4200 | D |
| 120-12-7----- | Anthracene | 570 | JD |
| 86-74-8----- | Carbazole | 3800 | U D |
| 84-74-2----- | Di-n-butylphthalate | 3800 | U D |
| 206-44-0----- | Fluoranthene | 2500 | JD |
| 92-87-5----- | Benzidine | 3800 | U D |
| 129-00-0----- | Pyrene | 4900 | D |
| 85-68-7----- | Butylbenzylphthalate | 3800 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 3800 | U D |
| 56-55-3----- | Benzo(a)anthracene | 1300 | JD |
| 218-01-9----- | Chrysene | 1800 | JD |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 11000 | D |
| 117-84-0----- | Di-n-octylphthalate | 3800 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 1500 | JD |
| 207-08-9----- | Benzo(k)fluoranthene | 1300 | JD |
| 50-32-8----- | Benzo(a)pyrene | 1700 | JD |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 1600 | JD |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7233 *dx*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-016 *dx*

Sample wt/vol: 30.15 (g/mL) g

Lab File ID: DH136.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 57 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

| | | |
|------------------------------------|------|-----|
| 53-70-3-----Dibenzo(a,h)anthracene | 3800 | U D |
| 191-24-2-----Benzo(g,h,i)perylene | 1600 | JD |

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7233 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-016 *DL*

Sample wt/vol: 30.15 (g/mL) g

Lab File ID: ^DH136.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 57 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: .1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICS found: 10

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC | Q |
|------------|------------------------------|-------|-----------|---|
| 1. | Unknown Hydrocarbon | 6.11 | 29000 | J |
| 2. | Unknown | 6.23 | 17000 | J |
| 3. 493027 | Naphthalene, decahydro-, tra | 6.34 | 31000 | J |
| 4. | Unknown | 6.58 | 27000 | J |
| 5. | Unknown | 8.41 | 15000 | J |
| 6. | Unknown | 9.34 | 19000 | J |
| 7. | Unknown | 9.45 | 26000 | J |
| 8. | Unknown | 9.55 | 18000 | J |
| 9. 1921706 | Pentadecane, 2,6,10,14-tetra | 12.22 | 28000 | J |
| 10. 638368 | Hexadecane, 2,6,10,14-tetram | 13.48 | 19000 | J |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7234 ~~2~~

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-017 ~~2~~

Sample wt/vol: 30.17 (g/mL) g

Lab File ID: DH156.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|----------|------------------------------|---|-----|
| 108-95-2 | Phenol | 7400 | U D |
| 62-53-3 | Aniline | 7400 | U D |
| 111-44-4 | bis(2-Chloroethyl) ether | 7400 | U D |
| 95-57-8 | 2-Chlorophenol | 7400 | U D |
| 541-73-1 | 1,3-Dichlorobenzene | 7400 | U D |
| 106-46-7 | 1,4-Dichlorobenzene | 7400 | U D |
| 100-51-6 | Benzyl Alcohol | 7400 | U D |
| 95-50-1 | 1,2-Dichlorobenzene | 7400 | U D |
| 95-48-7 | 2-Methylphenol | 7400 | U D |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 7400 | U D |
| 106-44-5 | 4-Methylphenol | 7400 | U D |
| 621-64-7 | N-Nitroso-di-n-propylamine | 7400 | U D |
| 67-72-1 | Hexachloroethane | 7400 | U D |
| 98-95-3 | Nitrobenzene | 7400 | U D |
| 78-59-1 | Propiophenone | 7400 | U D |
| 88-75-5 | 2-Nitrophenol | 7400 | U D |
| 105-67-9 | 2,4-Dimethylphenol | 7400 | U D |
| 65-85-0 | Benzoic Acid | 19000 | U D |
| 111-91-1 | bis(2-Chloroethoxy) methane | 7400 | U D |
| 120-53-3 | 2,4-Dichlorophenol | 7400 | U D |
| 120-53-3 | 2,4,6-Trichlorobenzene | 7400 | U D |
| 91-20-3 | Phthalene | 7400 | U D |
| 106-54-0 | Chloroaniline | 7400 | U D |
| 87-68-3 | Chlorobutadiene | 7400 | U D |
| 59-53-4 | 2,4-Dichloro-3-methylphenol | 7400 | U D |
| 91-57-1 | 1-Methylnaphthalene | 7400 | U D |
| 77-47-4 | Hexachlorocyclopentadiene | 7400 | U D |
| 88-06-2 | 2,4,6-Trichlorophenol | 7400 | U D |
| 95-95-4 | 2,4,5-Trichlorophenol | 19000 | U D |
| 91-58-7 | 2-Chloronaphthalene | 7400 | U D |
| 88-74-4 | 2-Nitroaniline | 19000 | U D |
| 131-11-3 | Dimethylphthalate | 7400 | U D |
| 208-96-8 | Acenaphthylene | 7400 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7234 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-017 *DL*

Sample wt/vol: 30.17 (g/mL) g

Lab File ID: DH156.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|----------------|----------------------------|-------|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 7400 | U D |
| 99-09-2----- | 3-Nitroaniline | 19000 | U D |
| 83-32-9----- | Acenaphthene | 7400 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 19000 | U D |
| 100-02-7----- | 4-Nitrophenol | 19000 | U D |
| 132-64-9----- | Dibenzofuran | 7400 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 7400 | U D |
| 84-66-2----- | Diethylphthalate | 7400 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 7400 | U D |
| 86-73-7----- | Fluorene | 7400 | U D |
| 100-01-6----- | 4-Nitroaniline | 19000 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 19000 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 7400 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 7400 | U D |
| 118-74-1----- | Hexachlorobenzene | 7400 | U D |
| 87-86-5----- | Pentachlorophenol | 19000 | U D |
| 85-01-8----- | Phenanthrene | 2100 | JD |
| 120-12-7----- | Anthracene | 7400 | U D |
| 86-74-8----- | Carbazole | 7400 | U D |
| 84-74-2----- | Di-n-butylphthalate | 7400 | U D |
| 206-44-0----- | Fluoranthene | 2600 | JD |
| 92-87-5----- | Benzidine | 7400 | U D |
| 129-00-0----- | Pyrene | 3200 | JD |
| 85-68-7----- | Butylbenzylphthalate | 7400 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 7400 | U D |
| 56-55-3----- | Benzo(a)anthracene | 1300 | JD |
| 218-01-9----- | Chrysene | 1400 | JD |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 7400 | U D |
| 117-84-0----- | Di-n-octylphthalate | 7400 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 7400 | U D |
| 207-08-9----- | Benzo(k)fluoranthene | 7400 | U D |
| 50-32-8----- | Benzo(a)pyrene | 1300 | JD |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 7400 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7234 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-017 *DL*

Sample wt/vol: 30.17 (g/mL) g

Lab File ID: DH156.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

| | | |
|------------------------------------|------|-----|
| 53-70-3-----Dibenzo(a,h)anthracene | 7400 | U D |
| 191-24-2-----Benzo(g,h,i)perylene | 7400 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7235 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-018 DL

Sample wt/vol: 30.25 (g/mL) g

Lab File ID: DH157.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---------|----------|---|---|
|---------|----------|---|---|

| | | | |
|---------------|------------------------------|-------|-----|
| 108-95-2----- | Phenol | 8400 | U D |
| 62-53-3----- | Aniline | 8400 | U D |
| 111-44-4----- | bis(2-Chloroethyl) ether | 8400 | U D |
| 95-57-8----- | 2-Chlorophenol | 8400 | U D |
| 541-73-1----- | 1,3-Dichlorobenzene | 8400 | U D |
| 106-46-7----- | 1,4-Dichlorobenzene | 8400 | U D |
| 100-51-6----- | Benzyl Alcohol | 8400 | U D |
| 95-50-1----- | 1,2-Dichlorobenzene | 8400 | U D |
| 95-48-7----- | 2-Methylphenol | 8400 | U D |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 8400 | U D |
| 106-44-5----- | 4-Methylphenol | 8400 | U D |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 8400 | U D |
| 67-72-1----- | Hexachloroethane | 8400 | U D |
| 98-95-3----- | Nitrobenzene | 8400 | U D |
| 78-59-1----- | Isophorone | 8400 | U D |
| 88-75-5----- | 2-Nitrophenol | 8400 | U D |
| 105-67-9----- | 2,4-Dimethylphenol | 8400 | U D |
| 65-85-0----- | Benzoic Acid | 21000 | U D |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 8400 | U D |
| 120-83-2----- | 2,4-Dichlorophenol | 8400 | U D |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 8400 | U D |
| 91-20-3----- | Naphthalene | 8400 | U D |
| 106-47-8----- | 4-Chloroaniline | 8400 | U D |
| 87-68-3----- | Hexachlorobutadiene | 8400 | U D |
| 59-50-7----- | 4-Chloro-3-methylphenol | 8400 | U D |
| 91-57-6----- | 2-Methylnaphthalene | 8400 | U D |
| 77-47-4----- | Hexachlorocyclopentadiene | 8400 | U D |
| 88-06-2----- | 2,4,6-Trichlorophenol | 8400 | U D |
| 95-95-4----- | 2,4,5-Trichlorophenol | 21000 | U D |
| 91-58-7----- | 2-Chloronaphthalene | 8400 | U D |
| 88-74-4----- | 2-Nitroaniline | 21000 | U D |
| 131-11-3----- | Dimethylphthalate | 8400 | U D |
| 208-96-8----- | Acenaphthylene | 8400 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7235 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-018 *DL*

Sample wt/vol: 30.25 (g/mL) g

Lab File ID: DH157.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|----------------|----------------------------|---|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 8400 | U D |
| 99-09-2----- | 3-Nitroaniline | 21000 | U D |
| 83-32-9----- | Acenaphthene | 8400 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 21000 | U D |
| 100-02-7----- | 4-Nitrophenol | 21000 | U D |
| 132-64-9----- | Dibenzofuran | 8400 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 8400 | U D |
| 84-66-2----- | Diethylphthalate | 8400 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 8400 | U D |
| 86-73-7----- | Fluorene | 8400 | U D |
| 100-01-6----- | 4-Nitroaniline | 21000 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 21000 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 8400 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 8400 | U D |
| 118-74-1----- | Hexachlorobenzene | 8400 | U D |
| 87-86-5----- | Pentachlorophenol | 21000 | U D |
| 85-01-8----- | Phenanthrene | 7000 | JD |
| 120-12-7----- | Anthracene | 1300 | JD |
| 86-74-8----- | Carbazole | 8400 | U D |
| 84-74-2----- | Di-n-butylphthalate | 8400 | U D |
| 206-44-0----- | Fluoranthene | 8200 | JD |
| 92-87-5----- | Benzidine | 8400 | U D |
| 129-00-0----- | Pyrene | 9200 | D |
| 85-68-7----- | Butylbenzylphthalate | 8400 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 8400 | U D |
| 56-55-3----- | Benzo(a)anthracene | 3600 | JD |
| 218-01-9----- | Chrysene | 3900 | JD |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 8400 | U D |
| 117-84-0----- | Di-n-octylphthalate | 8400 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 3200 | JD |
| 207-08-9----- | Benzo(k)fluoranthene | 2900 | JD |
| 50-32-8----- | Benzo(a)pyrene | 3400 | JD |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 8400 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7235 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-018 *DL*

Sample wt/vol: 30.25 (g/mL) g

Lab File ID: DH157.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---------|----------|---|---|
|---------|----------|---|---|

53-70-3-----Dibenzo(a,h)anthracene_____

8400

U D

191-24-2-----Benzo(g,h,i)perylene_____

1800

JD

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7325 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-020 DL

Sample wt/vol: 30.1 (g/mL) g

Lab File ID: DH154.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|---------------|------------------------------|-------|-----|
| 108-95-2----- | Phenol | 7700 | U D |
| 62-53-3----- | Aniline | 7700 | U D |
| 111-44-4----- | bis(2-Chloroethyl) ether | 7700 | U D |
| 95-57-8----- | 2-Chlorophenol | 7700 | U D |
| 541-73-1----- | 1,3-Dichlorobenzene | 7700 | U D |
| 106-46-7----- | 1,4-Dichlorobenzene | 7700 | U D |
| 100-51-6----- | Benzyl Alcohol | 7700 | U D |
| 95-50-1----- | 1,2-Dichlorobenzene | 7700 | U D |
| 95-48-7----- | 2-Methylphenol | 7700 | U D |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 7700 | U D |
| 106-44-5----- | 4-Methylphenol | 7700 | U D |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 7700 | U D |
| 67-72-1----- | Hexachloroethane | 7700 | U D |
| 98-95-3----- | Nitrobenzene | 7700 | U D |
| 78-59-1----- | Isophorone | 7700 | U D |
| 88-75-5----- | 2-Nitrophenol | 7700 | U D |
| 105-67-9----- | 2,4-Dimethylphenol | 7700 | U D |
| 65-85-0----- | Benzoic Acid | 19000 | U D |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 7700 | U D |
| 120-83-2----- | 2,4-Dichlorophenol | 7700 | U D |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 7700 | U D |
| 91-20-3----- | Naphthalene | 7700 | U D |
| 106-47-8----- | 4-Chloroaniline | 7700 | U D |
| 87-68-3----- | Hexachlorobutadiene | 7700 | U D |
| 59-50-7----- | 4-Chloro-3-methylphenol | 7700 | U D |
| 91-57-6----- | 2-Methylnaphthalene | 7700 | U D |
| 77-47-4----- | Hexachlorocyclopentadiene | 7700 | U D |
| 88-06-2----- | 2,4,6-Trichlorophenol | 7700 | U D |
| 95-95-4----- | 2,4,5-Trichlorophenol | 19000 | U D |
| 91-58-7----- | 2-Chloronaphthalene | 7700 | U D |
| 88-74-4----- | 2-Nitroaniline | 19000 | U D |
| 131-11-3----- | Dimethylphthalate | 7700 | U D |
| 208-96-8----- | Acenaphthylene | 7700 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7325 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-020 DL

Sample wt/vol: 30.1 (g/mL) g

Lab File ID: DH154.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

| | | | |
|----------------|----------------------------|-------|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 7700 | U D |
| 99-09-2----- | 3-Nitroaniline | 19000 | U D |
| 83-32-9----- | Acenaphthene | 7700 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 19000 | U D |
| 100-02-7----- | 4-Nitrophenol | 19000 | U D |
| 132-64-9----- | Dibenzofuran | 7700 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 7700 | U D |
| 84-66-2----- | Diethylphthalate | 7700 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 7700 | U D |
| 86-73-7----- | Fluorene | 7700 | U D |
| 100-01-6----- | 4-Nitroaniline | 19000 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 19000 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 7700 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 7700 | U D |
| 118-74-1----- | Hexachlorobenzene | 7700 | U D |
| 87-86-5----- | Pentachlorophenol | 19000 | U D |
| 85-01-8----- | Phenanthrene | 1900 | JD |
| 120-12-7----- | Anthracene | 7700 | U D |
| 86-74-8----- | Carbazole | 7700 | U D |
| 84-74-2----- | Di-n-butylphthalate | 7700 | U D |
| 206-44-0----- | Fluoranthene | 2700 | JD |
| 92-87-5----- | Benzidine | 7700 | U D |
| 129-00-0----- | Pyrene | 3200 | JD |
| 85-68-7----- | Butylbenzylphthalate | 7700 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 7700 | U D |
| 56-55-3----- | Benzo(a)anthracene | 1300 | JD |
| 218-01-9----- | Chrysene | 1600 | JD |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 7700 | U D |
| 117-84-0----- | Di-n-octylphthalate | 7700 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 7700 | U D |
| 207-08-9----- | Benzo(k)fluoranthene | 7700 | U D |
| 50-32-8----- | Benzo(a)pyrene | 1500 | JD |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 7700 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7325 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-020 *DL*

Sample wt/vol: 30.1 (g/mL) g

Lab File ID: ^DH154.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

| | | |
|------------------------------------|------|-----|
| 53-70-3-----Dibenzo(a,h)anthracene | 7700 | U D |
| 191-24-2-----Benzo(g,h,i)perylene | 1500 | JD |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7327 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-024 *DL*

Sample wt/vol: 30.14 (g/mL) g

Lab File ID: DH159.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 22 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---------------|------------------------------|---|-----|
| 108-95-2----- | Phenol | 8500 | U D |
| 62-53-3----- | Aniline | 8500 | U D |
| 111-44-4----- | bis(2-Chloroethyl) ether | 8500 | U D |
| 95-57-8----- | 2-Chlorophenol | 8500 | U D |
| 541-73-1----- | 1,3-Dichlorobenzene | 8500 | U D |
| 106-46-7----- | 1,4-Dichlorobenzene | 8500 | U D |
| 100-51-6----- | Benzyl Alcohol | 8500 | U D |
| 95-50-1----- | 1,2-Dichlorobenzene | 8500 | U D |
| 95-48-7----- | 2-Methylphenol | 8500 | U D |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 8500 | U D |
| 106-44-5----- | 4-Methylphenol | 8500 | U D |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 8500 | U D |
| 67-72-1----- | Hexachloroethane | 8500 | U D |
| 98-95-3----- | Nitrobenzene | 8500 | U D |
| 78-59-1----- | Isophorone | 8500 | U D |
| 88-75-5----- | 2-Nitrophenol | 8500 | U D |
| 105-67-9----- | 2,4-Dimethylphenol | 8500 | U D |
| 65-85-0----- | Benzoic Acid | 21000 | U D |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 8500 | U D |
| 120-83-2----- | 2,4-Dichlorophenol | 8500 | U D |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 8500 | U D |
| 91-20-3----- | Naphthalene | 8500 | U D |
| 106-47-8----- | 4-Chloroaniline | 8500 | U D |
| 87-68-3----- | Hexachlorobutadiene | 8500 | U D |
| 59-50-7----- | 4-Chloro-3-methylphenol | 8500 | U D |
| 91-57-6----- | 2-Methylnaphthalene | 8500 | U D |
| 77-47-4----- | Hexachlorocyclopentadiene | 8500 | U D |
| 88-06-2----- | 2,4,6-Trichlorophenol | 8500 | U D |
| 95-95-4----- | 2,4,5-Trichlorophenol | 21000 | U D |
| 91-58-7----- | 2-Chloronaphthalene | 8500 | U D |
| 88-74-4----- | 2-Nitroaniline | 21000 | U D |
| 131-11-3----- | Dimethylphthalate | 8500 | U D |
| 208-96-8----- | Acenaphthylene | 8500 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7327 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-024 DL

Sample wt/vol: 30.14 (g/mL) g

Lab File ID: DH159.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 22 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|----------------|----------------------------|---|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 8500 | U D |
| 99-09-2----- | 3-Nitroaniline | 21000 | U D |
| 83-32-9----- | Acenaphthene | 8500 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 21000 | U D |
| 100-02-7----- | 4-Nitrophenol | 21000 | U D |
| 132-64-9----- | Dibenzofuran | 8500 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 8500 | U D |
| 84-66-2----- | Diethylphthalate | 8500 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 8500 | U D |
| 86-73-7----- | Fluorene | 8500 | U D |
| 100-01-6----- | 4-Nitroaniline | 21000 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 21000 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 8500 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 8500 | U D |
| 118-74-1----- | Hexachlorobenzene | 8500 | U D |
| 87-86-5----- | Pentachlorophenol | 21000 | U D |
| 85-01-8----- | Phenanthrene | 7900 | JD |
| 120-12-7----- | Anthracene | 1700 | JD |
| 86-74-8----- | Carbazole | 8500 | U D |
| 84-74-2----- | Di-n-butylphthalate | 8500 | U D |
| 206-44-0----- | Fluoranthene | 7100 | JD |
| 92-87-5----- | Benzidine | 8500 | U D |
| 129-00-0----- | Pyrene | 8600 | D |
| 85-68-7----- | Butylbenzylphthalate | 8500 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 8500 | U D |
| 56-55-3----- | Benzo(a)anthracene | 3400 | JD |
| 218-01-9----- | Chrysene | 3400 | JD |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 8500 | U D |
| 117-84-0----- | Di-n-octylphthalate | 8500 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 2600 | JD |
| 207-08-9----- | Benzo(k)fluoranthene | 2200 | JD |
| 50-32-8----- | Benzo(a)pyrene | 2900 | JD |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 8500 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7327 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-024 *DL*

Sample wt/vol: 30.14 (g/mL) g

Lab File ID: DH159.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 22 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---------------|------------------------|---|-----|
| 53-70-3----- | Dibenzo(a,h)anthracene | 8500 | U D |
| 191-24-2----- | Benzo(g,h,i)perylene | 1500 | JD |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7329 *✓*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-026 *✓*

Sample wt/vol: 30.31 (g/mL) g

Lab File ID: ^DH161.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|---------------|------------------------------|-------|-----|
| 108-95-2----- | Phenol | 8200 | U D |
| 62-53-3----- | Aniline | 8200 | U D |
| 111-44-4----- | bis(2-Chloroethyl) ether | 8200 | U D |
| 95-57-8----- | 2-Chlorophenol | 8200 | U D |
| 541-73-1----- | 1,3-Dichlorobenzene | 8200 | U D |
| 106-46-7----- | 1,4-Dichlorobenzene | 8200 | U D |
| 100-51-6----- | Benzyl Alcohol | 8200 | U D |
| 95-50-1----- | 1,2-Dichlorobenzene | 8200 | U D |
| 95-48-7----- | 2-Methylphenol | 8200 | U D |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 8200 | U D |
| 106-44-5----- | 4-Methylphenol | 8200 | U D |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 8200 | U D |
| 67-72-1----- | Hexachloroethane | 8200 | U D |
| 98-95-3----- | Nitrobenzene | 8200 | U D |
| 78-59-1----- | Isophorone | 8200 | U D |
| 88-75-5----- | 2-Nitrophenol | 8200 | U D |
| 105-67-9----- | 2,4-Dimethylphenol | 8200 | U D |
| 65-85-0----- | Benzoic Acid | 21000 | U D |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 8200 | U D |
| 120-83-2----- | 2,4-Dichlorophenol | 8200 | U D |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 8200 | U D |
| 91-20-3----- | Naphthalene | 8200 | U D |
| 106-47-8----- | 4-Chloroaniline | 8200 | U D |
| 87-68-3----- | Hexachlorobutadiene | 8200 | U D |
| 59-50-7----- | 4-Chloro-3-methylphenol | 8200 | U D |
| 91-57-6----- | 2-Methylnaphthalene | 8200 | U D |
| 77-47-4----- | Hexachlorocyclopentadiene | 8200 | U D |
| 88-06-2----- | 2,4,6-Trichlorophenol | 8200 | U D |
| 95-95-4----- | 2,4,5-Trichlorophenol | 21000 | U D |
| 91-58-7----- | 2-Chloronaphthalene | 8200 | U D |
| 88-74-4----- | 2-Nitroaniline | 21000 | U D |
| 131-11-3----- | Dimethylphthalate | 8200 | U D |
| 208-96-8----- | Acenaphthylene | 8200 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7329DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-026 DL

Sample wt/vol: 30.31 (g/mL) g

Lab File ID: DH161.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---------|----------|---|---|
|---------|----------|---|---|

| | | | |
|----------------|-----------------------------|-------|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 8200 | U D |
| 99-09-2----- | 3-Nitroaniline | 21000 | U D |
| 83-32-9----- | Acenaphthene | 8200 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 21000 | U D |
| 100-02-7----- | 4-Nitrophenol | 21000 | U D |
| 132-64-9----- | Dibenzofuran | 8200 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 8200 | U D |
| 84-66-2----- | Diethylphthalate | 8200 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 8200 | U D |
| 86-73-7----- | Fluorene | 8200 | U D |
| 100-01-6----- | 4-Nitroaniline | 21000 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 21000 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 8200 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 8200 | U D |
| 118-74-1----- | Hexachlorobenzene | 8200 | U D |
| 87-86-5----- | Pentachlorophenol | 21000 | U D |
| 85-01-8----- | Phenanthrene | 8200 | U D |
| 120-12-7----- | Anthracene | 8200 | U D |
| 86-74-8----- | Carbazole | 8200 | U D |
| 84-74-2----- | Di-n-butylphthalate | 8200 | U D |
| 206-44-0----- | Fluoranthene | 8200 | U D |
| 92-87-5----- | Benzidine | 8200 | U D |
| 129-00-0----- | Pyrene | 8200 | U D |
| 85-68-7----- | Butylbenzylphthalate | 8200 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 8200 | U D |
| 56-55-3----- | Benzo(a)anthracene | 8200 | U D |
| 218-01-9----- | Chrysene | 8200 | U D |
| 117-81-7----- | bis(2-Ethyl hexyl)phthalate | 8200 | U D |
| 117-84-0----- | Di-n-octylphthalate | 8200 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 8200 | U D |
| 207-08-9----- | Benzo(k)fluoranthene | 8200 | U D |
| 50-32-8----- | Benzo(a)pyrene | 8200 | U D |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 8200 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7329 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-026 DL

Sample wt/vol: 30.31 (g/mL) g

Lab File ID: DH161.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

53-70-3-----Dibenzo(a,h)anthracene

8200

U D

191-24-2-----Benzo(g,h,i)perylene

8200

U D

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7330DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-027X

Sample wt/vol: 30.11 (g/mL) g

Lab File ID: DH155.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

| | | | |
|---------------|------------------------------|-------|-----|
| 108-95-2----- | Phenol | 7500 | U D |
| 62-53-3----- | Aniline | 7500 | U D |
| 111-44-4----- | bis(2-Chloroethyl) ether | 7500 | U D |
| 95-57-8----- | 2-Chlorophenol | 7500 | U D |
| 541-73-1----- | 1,3-Dichlorobenzene | 7500 | U D |
| 106-46-7----- | 1,4-Dichlorobenzene | 7500 | U D |
| 100-51-6----- | Benzyl Alcohol | 7500 | U D |
| 95-50-1----- | 1,2-Dichlorobenzene | 7500 | U D |
| 95-48-7----- | 2-Methylphenol | 7500 | U D |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 7500 | U D |
| 106-44-5----- | 4-Methylphenol | 7500 | U D |
| 621-64-7----- | N-Nitroso-di-n-propylamine | 7500 | U D |
| 67-72-1----- | Hexachloroethane | 7500 | U D |
| 98-95-3----- | Nitrobenzene | 7500 | U D |
| 78-59-1----- | Isophorone | 7500 | U D |
| 88-75-5----- | 2-Nitrophenol | 7500 | U D |
| 105-67-9----- | 2,4-Dimethylphenol | 7500 | U D |
| 65-85-0----- | Benzoic Acid | 19000 | U D |
| 111-91-1----- | bis(2-Chloroethoxy) methane | 7500 | U D |
| 120-83-2----- | 2,4-Dichlorophenol | 7500 | U D |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 7500 | U D |
| 91-20-3----- | Naphthalene | 7500 | U D |
| 106-47-8----- | 4-Chloroaniline | 7500 | U D |
| 87-68-3----- | Hexachlorobutadiene | 7500 | U D |
| 59-50-7----- | 4-Chloro-3-methylphenol | 7500 | U D |
| 91-57-6----- | 2-Methylnaphthalene | 7500 | U D |
| 77-47-4----- | Hexachlorocyclopentadiene | 7500 | U D |
| 88-06-2----- | 2,4,6-Trichlorophenol | 7500 | U D |
| 95-95-4----- | 2,4,5-Trichlorophenol | 19000 | U D |
| 91-58-7----- | 2-Chloronaphthalene | 7500 | U D |
| 88-74-4----- | 2-Nitroaniline | 19000 | U D |
| 131-11-3----- | Dimethylphthalate | 7500 | U D |
| 208-96-8----- | Acenaphthylene | 7500 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7330 *XL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-027*XL*

Sample wt/vol: 30.11 (g/mL) g

Lab File ID: DH155.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

| | | | |
|----------------|----------------------------|-------|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 7500 | U D |
| 99-09-2----- | 3-Nitroaniline | 19000 | U D |
| 83-32-9----- | Acenaphthene | 7500 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 19000 | U D |
| 100-02-7----- | 4-Nitrophenol | 19000 | U D |
| 132-64-9----- | Dibenzofuran | 7500 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 7500 | U D |
| 84-66-2----- | Diethylphthalate | 7500 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 7500 | U D |
| 86-73-7----- | Fluorene | 7500 | U D |
| 100-01-6----- | 4-Nitroaniline | 19000 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 19000 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 7500 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 7500 | U D |
| 118-74-1----- | Hexachlorobenzene | 7500 | U D |
| 87-86-5----- | Pentachlorophenol | 19000 | U D |
| 85-01-8----- | Phenanthrene | 1500 | JD |
| 120-12-7----- | Anthracene | 7500 | U D |
| 86-74-8----- | Carbazole | 7500 | U D |
| 84-74-2----- | Di-n-butylphthalate | 7500 | U D |
| 206-44-0----- | Fluoranthene | 1500 | JD |
| 92-87-5----- | Benzidine | 7500 | U D |
| 129-00-0----- | Pyrene | 1600 | JD |
| 85-68-7----- | Butylbenzylphthalate | 7500 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 7500 | U D |
| 56-55-3----- | Benzo(a)anthracene | 7500 | U D |
| 218-01-9----- | Chrysene | 7500 | U D |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 7500 | U D |
| 117-84-0----- | Di-n-octylphthalate | 7500 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 7500 | U D |
| 207-08-9----- | Benzo(k)fluoranthene | 7500 | U D |
| 50-32-8----- | Benzo(a)pyrene | 7500 | U D |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 7500 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7330 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-027 *DL*

Sample wt/vol: 30.11 (g/mL) g

Lab File ID: DH155.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | | |
|---------------|------------------------|------|-----|
| 53-70-3----- | Dibenzo(a,h)anthracene | 7500 | U D |
| 191-24-2----- | Benzo(g,h,i)perylene | 7500 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7332 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-031 *DL*

Sample wt/vol: 30.35 (g/mL) g

Lab File ID: DH163.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

| CAS NO. | COMPOUND | | |
|----------|------------------------------|-------|-----|
| 108-95-2 | Phenol | 7500 | U D |
| 62-53-3 | Aniline | 7500 | U D |
| 111-44-4 | bis(2-Chloroethyl) ether | 7500 | U D |
| 95-57-8 | 2-Chlorophenol | 7500 | U D |
| 541-73-1 | 1,3-Dichlorobenzene | 7500 | U D |
| 106-46-7 | 1,4-Dichlorobenzene | 7500 | U D |
| 100-51-6 | Benzyl Alcohol | 7500 | U D |
| 95-50-1 | 1,2-Dichlorobenzene | 7500 | U D |
| 95-48-7 | 2-Methylphenol | 7500 | U D |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 7500 | U D |
| 106-44-5 | 4-Methylphenol | 7500 | U D |
| 621-64-7 | N-Nitroso-di-n-propylamine | 7500 | U D |
| 67-72-1 | Hexachloroethane | 7500 | U D |
| 98-95-3 | Nitrobenzene | 7500 | U D |
| 78-59-1 | Isophorone | 7500 | U D |
| 88-75-5 | 2-Nitrophenol | 7500 | U D |
| 105-67-9 | 2,4-Dimethylphenol | 7500 | U D |
| 65-85-0 | Benzoic Acid | 19000 | U D |
| 111-91-1 | bis(2-Chloroethoxy) methane | 7500 | U D |
| 120-83-2 | 2,4-Dichlorophenol | 7500 | U D |
| 120-82-1 | 1,2,4-Trichlorobenzene | 7500 | U D |
| 91-20-3 | Naphthalene | 7500 | U D |
| 106-47-8 | 4-Chloroaniline | 7500 | U D |
| 87-68-3 | Hexachlorobutadiene | 7500 | U D |
| 59-50-7 | 4-Chloro-3-methylphenol | 7500 | U D |
| 91-57-6 | 2-Methylnaphthalene | 7500 | U D |
| 77-47-4 | Hexachlorocyclopentadiene | 7500 | U D |
| 88-06-2 | 2,4,6-Trichlorophenol | 7500 | U D |
| 95-95-4 | 2,4,5-Trichlorophenol | 19000 | U D |
| 91-58-7 | 2-Chloronaphthalene | 7500 | U D |
| 88-74-4 | 2-Nitroaniline | 19000 | U D |
| 131-11-3 | Dimethylphthalate | 7500 | U D |
| 208-96-8 | Acenaphthylene | 7500 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7332 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-031 *DL*

Sample wt/vol: 30.35 (g/mL) g

Lab File ID: DH163.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG Q

| | | | |
|----------------|----------------------------|-------|-----|
| 606-20-2----- | 2,6-Dinitrotoluene | 7500 | U D |
| 99-09-2----- | 3-Nitroaniline | 19000 | U D |
| 83-32-9----- | Acenaphthene | 7500 | U D |
| 51-28-5----- | 2,4-Dinitrophenol | 19000 | U D |
| 100-02-7----- | 4-Nitrophenol | 19000 | U D |
| 132-64-9----- | Dibenzofuran | 7500 | U D |
| 121-14-2----- | 2,4-Dinitrotoluene | 7500 | U D |
| 84-66-2----- | Diethylphthalate | 7500 | U D |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 7500 | U D |
| 86-73-7----- | Fluorene | 7500 | U D |
| 100-01-6----- | 4-Nitroaniline | 19000 | U D |
| 534-52-1----- | 4,6-Dinitro-2-methylphenol | 19000 | U D |
| 86-30-6----- | N-Nitrosodiphenylamine | 7500 | U D |
| 101-55-3----- | 4-Bromophenyl-phenylether | 7500 | U D |
| 118-74-1----- | Hexachlorobenzene | 7500 | U D |
| 87-86-5----- | Pentachlorophenol | 19000 | U D |
| 85-01-8----- | Phenanthrene | 7500 | U D |
| 120-12-7----- | Anthracene | 7500 | U D |
| 86-74-8----- | Carbazole | 7500 | U D |
| 84-74-2----- | Di-n-butylphthalate | 7500 | U D |
| 206-44-0----- | Fluoranthene | 1100 | JD |
| 92-87-5----- | Benzidine | 7500 | U D |
| 129-00-0----- | Pyrene | 1400 | JD |
| 85-68-7----- | Butylbenzylphthalate | 7500 | U D |
| 91-94-1----- | 3,3'-Dichlorobenzidine | 7500 | U D |
| 56-55-3----- | Benzo(a)anthracene | 7500 | U D |
| 218-01-9----- | Chrysene | 7500 | U D |
| 117-81-7----- | bis(2-Ethylhexyl)phthalate | 7500 | U D |
| 117-84-0----- | Di-n-octylphthalate | 7500 | U D |
| 205-99-2----- | Benzo(b)fluoranthene | 7500 | U D |
| 207-08-9----- | Benzo(k)fluoranthene | 7500 | U D |
| 50-32-8----- | Benzo(a)pyrene | 7500 | U D |
| 193-39-5----- | Indeno(1,2,3-cd)pyrene | 7500 | U D |

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7332 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-031 *DL*

Sample wt/vol: 30.35 (g/mL) g

Lab File ID: DH163.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

| | | |
|------------------------------------|------|-----|
| 53-70-3-----Dibenzo(a,h)anthracene | 7500 | U D |
| 191-24-2-----Benzo(g,h,i)perylene | 7500 | U D |

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street
Marlboro, MA 01782
DEP Certification # M-MA082
Telephone (508) 460-7600
Facsimile (508) 460-7777

Client: OpTech

Contact: M. Escobar

Revet Account Number: E2008

Method 8080 Matrix: Soil

PCB ANALYSIS

This data package contains the following:

| Revet ID | Client ID |
|--------------|------------------|
| 7241 | 01-014 BH, INT 1 |
| 7243 | 01-006-BH, INT 1 |
| 7244 | 01-006-BH, INT 2 |
| 7245 | 01-005-BH, INT 1 |
| BLANK.2008.1 | MBLK 11/20 |

REJET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.
181 Cedar Hill Street
Marlboro, MA 01752
(508) 460-7600

Page 1 of 1

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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7241 REVET Account No: E2008
Client Sample: 01-014 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113
Date Sampled: 11/17/93 Date Received: 11/17/93
Matrix: Soil Date Run: 12/07/93
Method: 8080 PCB Dilution Factor: 1.1
=====

Analyst: D.A.D'ANJOU Date: 1/5/94
D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor / VI Date: 1/5/94

| CAS Number | Compound | EPA Method Detection Limit for this sample* | | RESULTS** |
|------------|--------------|---|---|-----------|
| | | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 36.3 | | ND |
| 11104-28-2 | Aroclor-1221 | 73.7 | R | ND |
| 11141-16-5 | Aroclor-1232 | 36.3 | E | ND |
| 53469-21-9 | Aroclor-1242 | 36.3 | V | ND |
| 12672-29-6 | Aroclor-1248 | 36.3 | E | ND |
| 11097-69-1 | Aroclor-1254 | 36.3 | T | ND |
| 11096-82-5 | Aroclor-1260 | 36.3 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 9.2

Amount of sample extracted- 30.04 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 102 | 60 - 150 |
| Decachlorobiphenyl | 93 | 60 - 150 |

= Advisory Limits Only

Notes:

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.
 181 Cedar Hill Street
 Marlboro, MA 01752
 (508) 460-7600

Page 1 of 1

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| | | | |
|-------------------|------------------|-------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7243 | REVEN Account No: | E2008 |
| Client Sample: | 01-006 BH, INT 1 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/17/93 | Date Received: | 11/17/93 |
| Matrix: | Soil | Date Run: | 12/07/93 |
| Method: | 8080 PCB | Dilution Factor: | 1.1 |

Analyst: D.A.D'ANJOU Date: 1/5/94
 D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 1/5/94

| | | EPA Method | RESULTS** | |
|------------|--------------|------------------|-----------|----|
| | | Detection Limit | | |
| | | for this sample* | | |
| CAS Number | Compound | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 36.3 | | ND |
| 11104-28-2 | Aroclor-1221 | 73.7 | R | ND |
| 11141-16-5 | Aroclor-1232 | 36.3 | E | ND |
| 53469-21-9 | Aroclor-1242 | 36.3 | V | ND |
| 12672-29-6 | Aroclor-1248 | 36.3 | E | ND |
| 11097-69-1 | Aroclor-1254 | 36.3 | T | ND |
| 11096-82-5 | Aroclor-1260 | 36.3 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 13.3

Amount of sample extracted- 30.19 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 103 | 60 - 150 |
| Decachlorobiphenyl | 174+ | 60 - 150 |

= Advisory Limits Only

Notes: + = High results due to co-elution problems observed for this compound.

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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7244 REVET Account No: E2008
Client Sample: 01-006 BH, INT 2 Location / PO: WORCESTER ANG / P.N. 1315-113
Date Sampled: 11/17/93 Date Received: 11/17/93
Matrix: Soil Date Run: 12/08/93
Method: 8080 PCB Dilution Factor: 1.4

Analyst: Donald A. H. Lyne Date: 1/5/94
D.A.D'ANJOU, Ph.D.

QC Check: S. Taylor / V. Date: 1/5/94

| CAS Number | Compound | EPA Method Detection Limit for this sample* | | RESULTS** |
|------------|--------------|---|---|-----------|
| | | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 46.2 | | ND |
| 11104-28-2 | Aroclor-1221 | 93.8 | R | ND |
| 11141-16-5 | Aroclor-1232 | 46.2 | E | ND |
| 53469-21-9 | Aroclor-1242 | 46.2 | V | ND |
| 12672-29-6 | Aroclor-1248 | 46.2 | E | ND |
| 11097-69-1 | Aroclor-1254 | 46.2 | T | ND |
| 11096-82-5 | Aroclor-1260 | 46.2 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 26.9

Amount of sample extracted- 30.19 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 94 | 60 - 150 |
| Decachlorobiphenyl | 116 | 60 - 150 |

= Advisory Limits Only

Notes:

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| | | | |
|-------------------|------------------|------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7245 | REVE Account No: | E2008 |
| Client Sample: | 01-005 BH, INT 1 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/17/93 | Date Received: | 11/17/93 |
| Matrix: | Soil | Date Run: | 12/08/93 |
| Method: | 8080 PCB | Dilution Factor: | 1.1 |

Analyst: D.A.D'ANJOU Date: 1/5/94
D.A.D'ANJOU, Ph.D.

QC Check: E Tag 100 / 69 Date: 1/5/94

| CAS Number | Compound | EPA Method Detection Limit for this sample* | | RESULTS** |
|------------|--------------|---|---|-----------|
| | | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 36.3 | | ND |
| 11104-28-2 | Aroclor-1221 | 73.7 | R | ND |
| 11141-16-5 | Aroclor-1232 | 36.3 | E | ND |
| 53469-21-9 | Aroclor-1242 | 36.3 | V | ND |
| 12672-29-6 | Aroclor-1248 | 36.3 | E | ND |
| 11097-69-1 | Aroclor-1254 | 36.3 | T | ND |
| 11096-82-5 | Aroclor-1260 | 36.3 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 6.7

Amount of sample extracted- 30.15 g.

| Compound | Surrogate % Recovery | Acceptable | |
|----------------------|----------------------|------------|----|
| | | Soil Limit | ## |
| Tetrachloro-m-xylene | 106 | 60 - 150 | |
| Decachlorobiphenyl | 106 | 60 - 150 | |

= Advisory Limits Only

Notes:

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| | | | |
|-------------------|------------------|------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7240 | REVE Account No: | E2008 |
| Client Sample: | 01-012 BH, INT 2 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/17/93 | Date Received: | 11/17/93 |
| Matrix: | Soil | Date Run: | 12/07/93 *** |
| Method: | 8080 PCB | Dilution Factor: | 1.1 |

Analyst: Donald A. D'Anjou Date: 1/13/94
D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 1/13/94

| | | EPA Method Detection Limit for this sample* | RESULTS** |
|------------|--------------|---|-----------|
| CAS Number | Compound | ug/kg | |
| 12674-11-2 | Aroclor-1016 | 36.3 | ND |
| 11104-28-2 | Aroclor-1221 | 73.7 | R ND |
| 11141-16-5 | Aroclor-1232 | 36.3 | E ND |
| 53469-21-9 | Aroclor-1242 | 36.3 | V ND |
| 12672-29-6 | Aroclor-1248 | 36.3 | E ND |
| 11097-69-1 | Aroclor-1254 | 36.3 | T ND |
| 11096-82-5 | Aroclor-1260 | 36.3 | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 9.7

Amount of sample extracted- 30.08 g.

| | | Acceptable |
|----------------------|----------------------|---------------|
| Compound | Surrogate % Recovery | Soil Limit ## |
| Tetrachloro-m-xylene | 82 | 60 - 150 |
| Decachlorobiphenyl | 164+ | 60 - 150 |

= Advisory Limits Only

Notes: +=High results due to co-elution problems observed for this compound.

*** Sample extremely dirty, multiple clean-ups and runs necessary.

Final analysis date 1/8/94.

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Client: OPTECH Contact: JOHN MORRIS
 Revet Sample No.: 7242 REVET Account No: E2008
 Client Sample: 01-013 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113
 Date Sampled: 11/17/93 Date Received: 11/17/93
 Matrix: Soil Date Run: 12/07/93 ***
 Method: 8080 PCB Dilution Factor: 1.2

Analyst: D.A.D'ANJOU, Ph.D.

Date: 1/13/94

QC Check: S. Taylor

Date: 1/13/94

| | | EPA Method | RESULTS** | |
|------------|--------------|-----------------|-----------|----|
| | | Detection Limit | | |
| CAS Number | Compound | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 39.6 | | ND |
| 11104-28-2 | Aroclor-1221 | 80.4 | R | ND |
| 11141-16-5 | Aroclor-1232 | 39.6 | E | ND |
| 53469-21-9 | Aroclor-1242 | 39.6 | V | ND |
| 12672-29-6 | Aroclor-1248 | 39.6 | E | ND |
| 11097-69-1 | Aroclor-1254 | 39.6 | T | ND |
| 11096-82-5 | Aroclor-1260 | 39.6 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 13.6

Amount of sample extracted- 30.04 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 95 | 60 - 150 |
| Decachlorobiphenyl | 122 | 60 - 150 |

= Advisory Limits Only

Notes:***Sample extremely dirty, multiple clean-ups and runs necessary.
 Final analysis date = 1/8/94.

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| | | | |
|-------------------|------------------|-------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7246 | REVEt Account No: | E2008 |
| Client Sample: | 01-005 BH, INT 2 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/17/93 | Date Received: | 11/17/93. |
| Matrix: | Soil | Date Run: | 12/07/93* ** |
| Method: | 8080 PCB | Dilution Factor: | 1.2 |

Analyst: Donald A. D'Anjou Date: 1/13/94
D.A.D'ANJOU, Ph.D.

QC Check: E Taylor Date: 1/13/94

EPA Method
Detection Limit
for this sample*

RESULTS**

| CAS Number | Compound | ug/kg | | |
|------------|--------------|-------|---|----|
| 12674-11-2 | Aroclor-1016 | 39.6 | | ND |
| 11104-28-2 | Aroclor-1221 | 80.4 | R | ND |
| 11141-16-5 | Aroclor-1232 | 39.6 | E | ND |
| 53469-21-9 | Aroclor-1242 | 39.6 | V | ND |
| 12672-29-6 | Aroclor-1248 | 39.6 | E | ND |
| 11097-69-1 | Aroclor-1254 | 39.6 | T | ND |
| 11096-82-5 | Aroclor-1260 | 39.6 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 19

Amount of sample extracted- 30.06 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 102 | 60 - 150 |
| Decachlorobiphenyl | 264+ | 60 - 150 |

= Advisory Limits Only

Notes: +=High results due to co-elution problems observed for this compound.

** * Sample extremely dirty, multiple clean-ups and runs necessary.

Final analysis date 1/8/94.

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| | | | |
|-------------------|------------------|-------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7247 | REVET Account No: | E2008 |
| Client Sample: | 01-010 BH, INT 1 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/17/93 | Date Received: | 11/17/93 |
| Matrix: | Soil | Date Run: | 12/07/93 *** |
| Method: | 8080 PCB | Dilution Factor: | 1.7 |

Analyst: *D.A.D'Anjou* Date: *1/13/94*
D.A.D'ANJOU, Ph.D.

QC Check: *E. Taylor* Date: *1/13/94*

| | | EPA Method | RESULTS** | |
|------------|--------------|------------------|-----------|----|
| | | Detection Limit | | |
| | | for this sample* | | |
| CAS Number | Compound | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 56.1 | | ND |
| 11104-28-2 | Aroclor-1221 | 113.9 | R | ND |
| 11141-16-5 | Aroclor-1232 | 56.1 | E | ND |
| 53469-21-9 | Aroclor-1242 | 56.1 | V | ND |
| 12672-29-6 | Aroclor-1248 | 56.1 | E | ND |
| 11097-69-1 | Aroclor-1254 | 56.1 | T | ND |
| 11096-82-5 | Aroclor-1260 | 56.1 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 42.8

Amount of sample extracted- 30.36 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 100 | 60 - 150 |
| Decachlorobiphenyl | 86 | 60 - 150 |

= Advisory Limits Only

Notes: *** Sample extremely dirty, multiple clean-ups and runs necessary.
Final analysis date = 1/11/94.

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| | | | |
|-------------------|------------------|-------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7248 | REVEN Account No: | E2008 |
| Client Sample: | 01-008 BH, INT 1 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/17/93 | Date Received: | 11/17/93 |
| Matrix: | Soil | Date Run: | 12/07/93 *** |
| Method: | 8080 PCB | Dilution Factor: | 2.3 |

Analyst: Donald A. L. Gagnier Date: 1/13/94
D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 1/13/94

| | | EPA Method | RESULTS** | |
|------------|--------------|-----------------|-----------|----|
| | | Detection Limit | | |
| CAS Number | Compound | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 75.9 | | ND |
| 11104-28-2 | Aroclor-1221 | 154.1 | R | ND |
| 11141-16-5 | Aroclor-1232 | 75.9 | E | ND |
| 53469-21-9 | Aroclor-1242 | 75.9 | V | ND |
| 12672-29-6 | Aroclor-1248 | 75.9 | E | ND |
| 11097-69-1 | Aroclor-1254 | 75.9 | T | ND |
| 11096-82-5 | Aroclor-1260 | 75.9 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 57.2

Amount of sample extracted- 30.11 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 93 | 60 - 150 |
| Decachlorobiphenyl | 110 | 60 - 150 |

= Advisory Limits Only

Notes: *** Sample extremely dirty, multiple clean-ups and runs necessary.
Final analysis date = 1/11/94.

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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7249 REVET Account No: E2008
Client Sample: 01-004 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113
Date Sampled: 11/17/93 Date Received: 11/17/93
Matrix: Soil Date Run: 12/07/93* **
Method: 8080 PCB Dilution Factor: 1.1

Analyst: D.A.D'ANJOU, Ph.D. Date: 1/13/94

QC Check: S. Taylor Date: 1/13/94

| | | EPA Method | RESULTS** | |
|------------|--------------|------------------|-----------|----|
| | | Detection Limit | | |
| | | for this sample* | | |
| CAS Number | Compound | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 36.3 | | ND |
| 11104-28-2 | Aroclor-1221 | 73.7 | R | ND |
| 11141-16-5 | Aroclor-1232 | 36.3 | E | ND |
| 53469-21-9 | Aroclor-1242 | 36.3 | V | ND |
| 12672-29-6 | Aroclor-1248 | 36.3 | E | ND |
| 11097-69-1 | Aroclor-1254 | 36.3 | T | ND |
| 11096-82-5 | Aroclor-1260 | 36.3 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 10.7

Amount of sample extracted- 30.04 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 94 | 60 - 150 |
| Decachlorobiphenyl | 176+ | 60 - 150 |

= Advisory Limits Only

Notes: +=High results due to co-elution problems observed for this compound.

*** Sample extremely dirty, multiple clean-ups and runs necessary.

Final analysis date 1/8/94.

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.
181 Cedar Hill Street
Marlboro, MA 01752
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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7250 REVET Account No: E2008
Client Sample: 01-004 BH, INT 2 Location / PO: WORCESTER ANG / P.N. 1315-113
Date Sampled: 11/17/93 Date Received: 11/17/93
Matrix: Soil Date Run: 12/07/93***
Method: 8080 PCB Dilution Factor: 1.3

Analyst: D.A.D'ANJOU Date: 1/13/94
D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 1/13/94

| CAS Number | Compound | EPA Method Detection Limit for this sample* | | | RESULTS** |
|------------|--------------|---|---|--|-----------|
| | | ug/kg | | | |
| 12674-11-2 | Aroclor-1016 | 42.9 | | | ND |
| 11104-28-2 | Aroclor-1221 | 87.1 | R | | ND |
| 11141-16-5 | Aroclor-1232 | 42.9 | E | | ND |
| 53469-21-9 | Aroclor-1242 | 42.9 | V | | ND |
| 12672-29-6 | Aroclor-1248 | 42.9 | E | | ND |
| 11097-69-1 | Aroclor-1254 | 42.9 | T | | ND |
| 11096-82-5 | Aroclor-1260 | 42.9 | | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 21.1

Amount of sample extracted- 30.22 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 97 | 60 - 150 |
| Decachlorobiphenyl | 321+ | 60 - 150 |

= Advisory Limits Only

Notes: +=High results due to co-elution problems observed for this compound.

*** Sample extremely dirty, multiple clean-ups and runs necessary.

Final analysis date 1/8/94.

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street
Marlboro, MA 01782
DEP Certification # MA082
Telephone (508) 460-7600
Facsimile (508) 460-7777

Client: Optech

Contact: Mark Escobar

Revet Account Number: E2014 Date Received: 11/18/93

PESTICIDE ANALYSIS

This data package contains the following:

| Revet ID | Client ID |
|--------------|------------------------|
| 7335 | 01-015 BH, INT 1 |
| 7335MS | 01-015 BH, INT 1 |
| 7335MSD | 01-015 BH, INT 1 |
| 7336 | 01-015 BH, DUP |
| 7337 | 01-011 BH, INT 1 |
| 7338 | 01-011 BH, DUP |
| 7339 | 01-009 BH, INT 1 |
| 7340 | 01-007 BH, INT 1 |
| 7340MS | 01-007 BH, INT 1 |
| 7340MSD | 01-007 BH, INT 1 |
| 7341 | 01-007 BH, DUP |
| 7342 | 01-007 BH, INT 2 |
| BLANK.2014.1 | LABORATORY BLANK 11/29 |

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| | | | |
|-------------------|------------------|------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7335 | REVE Account No: | E2014 |
| Client Sample: | 01-015 BH, INT 1 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/18/93 | Date Received: | 11/18/93 |
| Matrix: | Soil | Date Run: | 12/10/93 |
| Method: | 8080 PCB | Dilution Factor: | 1.2 |

Analyst: *Donald A. Anjou* Date: *12/15/93*
D.A.D'ANJOU, Ph.D.

QC Check: *[Signature]* Date: *12/15/93*

| | | EPA Method Detection Limit for this sample* | RESULTS** |
|------------|--------------|---|-----------|
| CAS Number | Compound | ug/kg | |
| 12674-11-2 | Aroclor-1016 | 39.6 | ND |
| 11104-28-2 | Aroclor-1221 | 80.4 | R ND |
| 11141-16-5 | Aroclor-1232 | 39.6 | E ND |
| 53469-21-9 | Aroclor-1242 | 39.6 | V ND |
| 12672-29-6 | Aroclor-1248 | 39.6 | E ND |
| 11097-69-1 | Aroclor-1254 | 39.6 | T ND |
| 11096-82-5 | Aroclor-1260 | 39.6 | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 14.3

Amount of sample extracted- 30.03 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 110 | 60 - 150 |
| Decachlorobiphenyl | 472++ | 60 - 150 |

= Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.
Sample contains high concentrations of non-target compounds.

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Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7337 REVET Account No: E2014
Client Sample: 01-011 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113
Date Sampled: 11/18/93 Date Received: 11/18/93
Matrix: Soil Date Run: 12/10/93
Method: 8080 PCB Dilution Factor: 1.3
=====

Analyst: D.A.D'ANJOU Date: 12/28/93
D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 12/28/93

| | | EPA Method | RESULTS** |
|------------|--------------|------------------|-----------|
| | | Detection Limit | |
| CAS Number | Compound | for this sample* | |
| | | ug/kg | |
| 12674-11-2 | Aroclor-1016 | 42.9 | ND |
| 11104-28-2 | Aroclor-1221 | 87.1 | R ND |
| 11141-16-5 | Aroclor-1232 | 42.9 | E ND |
| 53469-21-9 | Aroclor-1242 | 42.9 | V ND |
| 12672-29-6 | Aroclor-1248 | 42.9 | E ND |
| 11097-69-1 | Aroclor-1254 | 42.9 | T ND |
| 11096-82-5 | Aroclor-1260 | 42.9 | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 21.7

Amount of sample extracted- 30.28 g.

| Compound | Surrogate % Recovery | Acceptable | |
|----------------------|----------------------|------------|----|
| | | Soil Limit | ## |
| Tetrachloro-m-xylene | 92 | 60 - 150 | |
| Decachlorobiphenyl | 336++ | 60 - 150 | |

= Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.
Sample contains high concentrations of non-target compounds.

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| | | | |
|-------------------|------------------|-------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7339 | REJET Account No: | E2014 |
| Client Sample: | 01-009 BH, INT 1 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/18/93 | Date Received: | 11/18/93 |
| Matrix: | Soil | Date Run: | 12/10/93 |
| Method: | 8080 PCB | Dilution Factor: | 1.2 |

Analyst: Donald A. D'Anjou
D.A.D'ANJOU, Ph.D.

Date: 12/18/93

QC Check: E. Taylor

Date: 12/28/93

| | | EPA Method | | RESULTS** |
|------------|--------------|------------------|---|-----------|
| | | Detection Limit | | |
| | | for this sample* | | |
| CAS Number | Compound | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 39.6 | | ND |
| 11104-28-2 | Aroclor-1221 | 80.4 | R | ND |
| 11141-16-5 | Aroclor-1232 | 39.6 | E | ND |
| 53469-21-9 | Aroclor-1242 | 39.6 | V | ND |
| 12672-29-6 | Aroclor-1248 | 39.6 | E | ND |
| 11097-69-1 | Aroclor-1254 | 39.6 | T | ND |
| 11096-82-5 | Aroclor-1260 | 39.6 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 20

Amount of sample extracted- 30.45 g.

| Compound | Surrogate % Recovery | Acceptable | |
|----------------------|----------------------|------------|----|
| | | Soil Limit | ## |
| Tetrachloro-m-xylene | 110 | 60 - 150 | |
| Decachlorobiphenyl | 208++ | 60 - 150 | |

= Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.
Sample contains high concentrations of non-target compounds.

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181 Cedar Hill Street
Marlboro, MA 01752
(508) 460-7600

Page 1 of 1

Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7340 REVET Account No: E2014
Client Sample: 01-007 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113
Date Sampled: 11/18/93 Date Received: 11/18/93
Matrix: Soil Date Run: 12/10/93
Method: 8080 PCB Dilution Factor: 1.1

Analyst: Donald A. L. (g)
D.A.D'ANJOU, Ph.D.

Date: 12/28/93

QC Check: S Taylor

Date: 12/28/93

| CAS Number | Compound | EPA Method Detection Limit for this sample* | | | RESULTS** |
|------------|--------------|---|---|--|-----------|
| | | ug/kg | | | |
| 12674-11-2 | Aroclor-1016 | 36.3 | | | ND |
| 11104-28-2 | Aroclor-1221 | 73.7 | R | | ND |
| 11141-16-5 | Aroclor-1232 | 36.3 | E | | ND |
| 53469-21-9 | Aroclor-1242 | 36.3 | V | | ND |
| 12672-29-6 | Aroclor-1248 | 36.3 | E | | ND |
| 11097-69-1 | Aroclor-1254 | 36.3 | T | | ND |
| 11096-82-5 | Aroclor-1260 | 36.3 | | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 11

Amount of sample extracted- 30.16 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 110 | 60 - 150 |
| Decachlorobiphenyl | 104 | 60 - 150 |

= Advisory Limits Only

Notes:

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(508) 460-7600

Page 1 of 1

=====
Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7342 REVET Account No: E2014
Client Sample: 01-007 BH, INT 2 Location / PO: WORCESTER ANG / P.N. 1315-113
Date Sampled: 11/18/93 Date Received: 11/18/93
Matrix: Soil Date Run: 12/10/93
Method: 8080 PCB Dilution Factor: 1.1
=====

Analyst: Donald A. Anjou Date: 12/28/93
D.A.D'ANJOU, Ph.D.

QC Check: E Taylor Date: 12/28/93

| | | EPA Method Detection Limit for this sample* | | RESULTS** |
|------------|--------------|---|---|-----------|
| CAS Number | Compound | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 36.3 | | ND |
| 11104-28-2 | Aroclor-1221 | 73.7 | R | ND |
| 11141-16-5 | Aroclor-1232 | 36.3 | E | ND |
| 53469-21-9 | Aroclor-1242 | 36.3 | V | ND |
| 12672-29-6 | Aroclor-1248 | 36.3 | E | ND |
| 11097-69-1 | Aroclor-1254 | 36.3 | T | ND |
| 11096-82-5 | Aroclor-1260 | 36.3 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 12.5

Amount of sample extracted- 30.28 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 111 | 60 - 150 |
| Decachlorobiphenyl | 331++ | 60 - 150 |

= Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.
Sample contains high concentrations of non-target compounds.

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15 Belmont Street
Worcester, MA 01605
(508) 753-3738

Page 1 of 1

Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7145 REVET Account No: E1997
Client Sample: 01-001 RH INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113
Date Sampled: 11/16/93 Date Received: 11/16/93
Matrix: Soil Date Run: 12/07/93
Method: 8080 PCB Dilution Factor: 1

Analyst: D.A.D'ANJOU
D.A.D'ANJOU, Ph.D.

Date: 12/10/93

QC Check: E. Taylor

Date: 12/10/93

| CAS Number | Compound | EPA Method Detection Limit for this sample* | | RESULTS** |
|------------|--------------|---|---|-----------|
| | | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 33 | | ND |
| 11104-28-2 | Aroclor-1221 | 67 | R | ND |
| 11141-16-5 | Aroclor-1232 | 33 | E | ND |
| 53469-21-9 | Aroclor-1242 | 33 | V | ND |
| 12672-29-6 | Aroclor-1248 | 33 | E | ND |
| 11097-69-1 | Aroclor-1254 | 33 | T | ND |
| 11096-82-5 | Aroclor-1260 | 33 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 4.1

Amount of sample extracted- 30.08 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 98 | 60 - 150 |
| Decachlorobiphenyl | 103 | 60 - 150 |

= Advisory Limits Only

Notes:

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(508) 753-3738

Page 1 of 1

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| | | | |
|-------------------|-----------------|------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7146 | REVE Account No: | E1997 |
| Client Sample: | 01-002 BH INT 1 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/16/93 | Date Received: | 11/16/93 |
| Matrix: | Soil | Date Run: | 12/07/93 |
| Method: | 8080 PCB | Dilution Factor: | 1.1 |

Analyst: D.A.D'ANJOU Date: 12/10/93
D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 12/10/93

| | | EPA Method Detection Limit for this sample* | RESULTS** |
|------------|--------------|---|-----------|
| CAS Number | Compound | ug/kg | |
| 12674-11-2 | Aroclor-1016 | 36.3 | ND |
| 11104-28-2 | Aroclor-1221 | 73.7 | R ND |
| 11141-16-5 | Aroclor-1232 | 36.3 | E ND |
| 53469-21-9 | Aroclor-1242 | 36.3 | V ND |
| 12672-29-6 | Aroclor-1248 | 36.3 | E ND |
| 11097-69-1 | Aroclor-1254 | 36.3 | T ND |
| 11096-82-5 | Aroclor-1260 | 36.3 | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 6.4

Amount of sample extracted- 30.23 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 94 | 60 - 150 |
| Decachlorobiphenyl | 96 | 60 - 150 |

= Advisory Limits Only

Notes:

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15 Belmont Street
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Page 1 of 1

=====
Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7147 REVET Account No: E1997
Client Sample: 01-003 BH INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113
Date Sampled: 11/16/93 Date Received: 11/16/93
Matrix: Soil Date Run: 12/07/93
Method: 8080 PCB Dilution Factor: 1
=====

Analyst: *[Signature]*
D.A.D'ANJOU, Ph.D.

Date: 12/10/93

QC Check: *[Signature]*

Date: 12/10/93

| | | EPA Method Detection Limit for this sample* | | RESULTS** |
|------------|--------------|---|---|-----------|
| CAS Number | Compound | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 33 | | ND |
| 11104-28-2 | Aroclor-1221 | 67 | R | ND |
| 11141-16-5 | Aroclor-1232 | 33 | E | ND |
| 53469-21-9 | Aroclor-1242 | 33 | V | ND |
| 12672-29-6 | Aroclor-1248 | 33 | E | ND |
| 11097-69-1 | Aroclor-1254 | 33 | T | ND |
| 11096-82-5 | Aroclor-1260 | 33 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 5.6

Amount of sample extracted- 30.36 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 92 | 60 - 150 |
| Decachlorobiphenyl | 130 | 60 - 150 |

= Advisory Limits Only

Notes:

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Page 1 of 1

Client: OPTECH Contact: JOHN MORRIS
Revet Sample No.: 7149 REVET Account No: E1997
Client Sample: 01-012 BH INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113
Date Sampled: 11/16/93 Date Received: 11/16/93
Matrix: Soil Date Run: 12/07/93
Method: 8080 PCB Dilution Factor: 1.1

Analyst: D.A.D'ANJOU Date: 12/10/93
D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 12/10/93

| | | EPA Method | RESULTS** |
|------------|--------------|------------------|-----------|
| | | Detection Limit | |
| | | for this sample* | |
| CAS Number | Compound | ug/kg | |
| 12674-11-2 | Aroclor-1016 | 36.3 | ND |
| 11104-28-2 | Aroclor-1221 | 73.7 | R ND |
| 11141-16-5 | Aroclor-1232 | 36.3 | E ND |
| 53469-21-9 | Aroclor-1242 | 36.3 | V ND |
| 12672-29-6 | Aroclor-1248 | 36.3 | E ND |
| 11097-69-1 | Aroclor-1254 | 36.3 | T ND |
| 11096-82-5 | Aroclor-1260 | 36.3 | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 7.7

Amount of sample extracted- 30.14 g.

| Compound | Surrogate % Recovery | Acceptable Soil Limit ## |
|----------------------|----------------------|-----------------------------|
| Tetrachloro-m-xylene | 92 | 60 - 150 |
| Decachlorobiphenyl | 176++ | 60 - 150 |

= Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.

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Worcester, MA 01605
(508) 753-3738

Page 1 of 1

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| | | | |
|-------------------|-----------------|------------------|-------------------------------|
| Client: | OPTECH | Contact: | JOHN MORRIS |
| Revet Sample No.: | 7148 | REVE Account No: | E1997 |
| Client Sample: | 01-003 BH INT 2 | Location / PO: | WORCESTER ANG / P.N. 1315-113 |
| Date Sampled: | 11/16/93 | Date Received: | 11/16/93 |
| Matrix: | Soil | Date Run: | 12/07/93 |
| Method: | 8080 PCB | Dilution Factor: | 1.1 |

Analyst: Donald A. D'Anjou Date: 12/10/93
D.A.D'ANJOU, Ph.D.

QC Check: E Taylor Date: 12/10/93

| | | EPA Method | RESULTS** | |
|------------|--------------|-----------------|-----------|----|
| | | Detection Limit | | |
| CAS Number | Compound | ug/kg | | |
| 12674-11-2 | Aroclor-1016 | 36.3 | | ND |
| 11104-28-2 | Aroclor-1221 | 73.7 | R | ND |
| 11141-16-5 | Aroclor-1232 | 36.3 | E | ND |
| 53469-21-9 | Aroclor-1242 | 36.3 | V | ND |
| 12672-29-6 | Aroclor-1248 | 36.3 | E | ND |
| 11097-69-1 | Aroclor-1254 | 36.3 | T | ND |
| 11096-82-5 | Aroclor-1260 | 36.3 | | ND |

ND- Not Detected

* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

**Data reported as dry weight Soil/sediment % moisture- 13.4

Amount of sample extracted- 30.24 g.

| Compound | Surrogate % Recovery | Acceptable | |
|----------------------|----------------------|------------|----|
| | | Soil Limit | ## |
| Tetrachloro-m-xylene | 97 | 60 - 150 | |
| Decachlorobiphenyl | 110 | 60 - 150 | |

= Advisory Limits Only

Notes:

=====

APPENDIX E

FIELD NOTES

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15 Belmont Street, Worcester, Massachusetts 01605
Phone: (508) 753-3738 • Fax: (508) 754-7056

Company Name **OPTTECH**
Operational
Technologies
Corporation

| | |
|--------------|-------------------------------------|
| Company Name | OPTeCH |
| Project Name | Operational Technologies Consortium |
| P.O. Number | |

Project Number 1315-113

P.O. Number

Company Address
4100 NW Loop 410, Suite 230
San Antonio, TX 78229-4799

Phone: (216) 731-0000

Fax: _____

CHAIN OF CUSTODY RECORD

Sheet ____ of ____

Project Name / Location

Worcester Air National Guard Station

Project Manager: JOHN MOREZIS

SITE MANAGER: EARL PARKER

MATRIX / SOURCE CODES

MW = Monitoring Well
L = Lake/Pond/Ocean
R = River/Stream
X1 = Other
RO = Runoff
I = Influent
S = Soil
O = Outfall
E = Effluent
SG = Sludge
W = Well
DW = Drinking Water
B = Bottom Sediment
X2 = Other
L F = Landfill

Analysis Requested (with method number)

[illegible]

Sampler's Signature

Sampler's Signature *Carol Z. Smith, #*

Affiliation
Suzanne M. V. V.

| Date | Time |
|----------|------|
| 11/16/17 | 1700 |

Number

Transfer B-linewicht-Ba-

Transfer Account B:

T:

Additional Comments:

| Turn-Around-Time: | Normal | Rush | Due Date |
|-------------------|--------------------------|--------------------------|----------|
| | <input type="checkbox"/> | <input type="checkbox"/> | |

Rush

Die Dars

(specify due date, surcharges may apply)

Revet Environmental & Analytical Laboratories

15 Belmont Street, Worcester, Massachusetts 01605
Phone: (508) 753-3738 • Fax: (508) 754-7056

Company Name: **OPERATIONAL TECHNOLOGIES CORPORATION**
Company Address: **4100 NW Loop 410 Suite 230 San Antonio TX 78229-4253**

Project Number: **1315-113**
P.O. Number: **(210) 731-0008**

Project Name / Location: **WORCESTER AIR NATIONAL GUARD STATION**

Project Manager: **JOHN MORRIS**
Site Manager: **EARL PARKER**

Phone: **(210) 731-0000**
Fax: **(210) 731-0008**

Revet Acct. #

CHAIN OF CUSTODY RECORD

Sheet **1** of **2**

| Sampling | | Client Sample I.D. | Container Codes: | | Matrix / Source | Method Preserve (number of containers) | | | | | Solubles - FF | Sampling Date | Time | Analysis Requested (with method number) | | MATRIX / SOURCE CODES | |
|----------|------|--------------------|--|-----------------------|-----------------|--|-----|--------|----------|-----|---------------|---------------|------|--|------------|---|---|
| Date | Time | | P = Plastic C = Cube A = Amber Glass B = Backlit Container 0 = Other | V = Vial G = Glass | | Unpres. | Ice | Nitric | Sulfuric | HCl | Other | | | | | MW = Monitoring Well L = Lake/Pond/Ocean R = River/Stream X1 = Other | RO = Runoff I = Influent S = Soil X2 = Other |
| 11/17/93 | 0810 | 01-012 BH, Int 2 | 2-Brass S. | | | | ✓ | | | | | | | SW8240 VOC, SVOC, TPH, PCB, PPM (13 Metals) | 418.1 8020 | W = Well O = Outfall E = Effluent SG = Sludge B = Bottom Sediment | LF = Landfill DW = Drinking Water |
| 11/17/93 | 0840 | Field Blank #1 | 6-Bottle Set | | | ✓ | ✓ | PPM | TPH | VOC | | | | " | " | " | " |
| 11/17/93 | 0850 | Equipment Blank #1 | 6-Bottle Set | | | ✓ | ✓ | PPM | TPH | VOC | | | | " | " | " | " |
| 11/17/93 | 1000 | 01-014 BH, Int 1 | 2-Brass S. | | | ✓ | | | | | | | | " | " | " | " |
| 11/17/93 | 1015 | 01-013 BH, Int 1 | 2-Brass S. | | | ✓ | | | | | | | | " | " | " | " |
| 11/17/93 | 1035 | 01-006 BH, Int 1 | 2-Brass S. | | | ✓ | | | | | | | | " | " | " | " |
| 11/17/93 | 1045 | 01-006 BH, Int 2 | 2-Brass S. | | | ✓ | | | | | | | | " | " | " | " |
| 11/17/93 | 1110 | 01-005 BH, Int 1 | 2-Brass S. | | | ✓ | | | | | | | | " | " | " | " |
| 11/17/93 | 1215 | 01-010 BH, Int 1 | 2-Brass S. | | | ✓ | | | | | | | | " | " | " | " |
| 11/17/93 | 1240 | 01-005 BH, Int 2 | 2-Brass S. | | | ✓ | | | | | | | | " | " | " | " |

| Transfers Relinquished By | | Transfers Accepted By | | Number | Time | Date | Affiliation | Signature | Additional Comments |
|---------------------------|------|-----------------------|------|--------|------|------|-------------|--------------------|---------------------|
| Date | Time | Date | Time | | | | | | |
| | | | | 1 | | | | <i>Earl Parker</i> | |
| | | | | 2 | | | | | |
| | | | | 3 | | | | | |

Turn-Around-Time: ☐ Normal ☐ Rush ☐ Due Date _____ (specify due date, surcharges may apply)

Revet Environmental & Analytical Laboratories

15 Belmont Street, Worcester, Massachusetts 01605

Phone: (508) 753-3738 • Fax: (508) 754-7056

Company Name

OPTTECH

Company Address

4100 RAO Loop 410 Suite 230
San Antonio, TX 78229-4753

Project Number

1315-113

P.O. Number

MA

Phone:

(716) 731-0000

Fax:

(716) 731-0008

CHAIN OF CUSTODY RECORD

Sheet 1 of 2

Project Name / Location

Worcester Air National Guard Station

Project Manager

John Morris

Revet Acct. #

Site Manager

Earl Proctor

| Sampling | | Client Sample I.D. | Container Codes: | | Matrix / Source | Method Preserve (number of containers) | | | | | Soluble - FH | Sampling Date Time | Analysis Requested (with method number) | | MATRIX / SOURCE CODES | | | |
|----------|------|-----------------------|---|-------------------------------|-----------------|---|-----|-------------|----------|-----|--------------|-----------------------|---|---|---|--|--|--|
| Date | Time | | P = Plastic C = Cube A = Amber Glass B = Bacteria Container O = Other | Containers (number / type) | | Unpres. | Ice | Nitric | Sulfuric | HCl | | | Other | MW = Monitoring Well L = Lake/Pond/Ocean R = River/Stream X1 = Other | RO = Runoff I = Influent S = Soil X2 = Other | O = Outfall E = Effluent SG = Sludge | W = Well DW = Drinking Water B = Bottom Sediment | |
| 11/17/93 | 1145 | 01-008 BH, Int 1 | 2 Brass S. | ✓ | | ✓ | | | | | | | SW8240 VOC | 8270 SVOC | 418.1 TPH | 8080 PCB | PPM (BAM-bk) | |
| 11/17/93 | 1320 | 01-004 BH, Int 1 | 2 Brass S. | ✓ | | ✓ | | | | | | | " | " | " | " | " | |
| 11/17/93 | 1410 | 01-004 BH, Int 2 | 2 Brass S. | ✓ | | ✓ | | | | | | | " | " | " | " | " | |
| 11/17/93 | 1420 | Field Blank # 2 | 6 Bottle Set | ✓ | | ✓ | | PPM TPH VOC | | | | | " | " | " | " | " | |
| 11/17/93 | 1430 | Equipment Blank # 2 | 6 Bottle Set | ✓ | | ✓ | | PPM TPH VOC | | | | | " | " | " | " | " | |
| - | - | Trip Blank B | 40 ml VOA | ✓ | | ✓ | | | | | | | Volatile Analysis | | | | | |
| - | - | Trip Blank C | 40 ml VOA | ✓ | | ✓ | | | | | | | Volatile Analysis | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

| Sampler's Signature | Affiliation | Date | Time | Number | Transfers Relinquished By | Transfers Accepted By | Date | Time |
|---------------------|--------------|-------|------|--------|---------------------------|-----------------------|-------|-------|
| Earl Proctor | Site Manager | 11/17 | | 1 | Earl Proctor | John Morris | 11/17 | 17:10 |
| | | | | 2 | | | | |
| | | | | 3 | | | | |

Additional Comments:

(508) 460-7600 PHONE
(508) 460-7777 FAX

Turn-Around-Time: ☐ Normal ☐ Rush ☐ Due Date _____ (specify due date, surcharges may apply)

Revet Environmental & Analytical Laboratories

15 Belmont Street, Worcester, Massachusetts 01605

Phone: (508) 753-3738 • Fax: (508) 754-7056

Company Name

OPTTECH

Operational Technologies Corporation

Project Number

1315-113

P.O. Number

Company Address

4100 N. Loop 410 Suite 230
San Antonio TX 78229-4753

Phone:

(210) 731-0000

Fax:

(210) 731-0008

CHAIN OF CUSTODY RECORD

Sheet 1 of 2

Project Name / Location

Worcester Air National Guard Station

Project Manager

JOHN MANNING MORRIS

Revet Acct. #

Site Manager: ERIK E. PROKEG

| Sampling | | Client Sample I.D. | Container Codes: P = Plastic V = Vial C = Cube G = Glass A = Amber Glass B = Bacteria Container O = Other | Containers (number / type) | Matrix / Source | Method Preserve (number of containers) | | | | | Solubles - FF | Sampling | | Analysis Requested (with method number) | MATRIX / SOURCE CODES RO = Runoff O = Outfall W = Well LF = Landfill I = Influent E = Effluent DW = Drinking Water S = Soil SG = Sludge B = Bottom Sediment X1 = Other X2 = Other | | |
|----------|------|----------------------------|--|-------------------------------|-----------------|---|-----|--------|----------|-----|---------------|----------|-------------|---|---|-------|---|
| Date | Time | | | | | Unpres. | Ice | Nitric | Sulfuric | HCl | | Other | Date | | | Time | |
| 11/18/93 | 0730 | 01-015 BH, Int 1 | 2 - Brass S | | | ✓ | | | | | | | 308240 SVOC | 8270 | 8080 | 418.1 | |
| 11/18/93 | 0945 | 01-015 BH, Field Duplicate | 2 - Brass S | | | ✓ | | | | | | | " | " | " | " | " |
| 11/18/93 | 1000 | 01-015 BH, MS/MSD | 2 - Brass S | | | ✓ | | | | | | | " | " | " | " | " |
| 11/18/93 | 1030 | 01-011 BH, Tall | 2 - Brass S | | | ✓ | | | | | | | " | " | " | " | " |
| 11/18/93 | 1050 | 01-011 BH, Field Duplicate | 2 - Brass S | | | ✓ | | | | | | | " | " | " | " | " |
| 11/18/93 | 1100 | 01-009 BH, Int 1 | 2 - Brass S | | | ✓ | | | | | | | " | " | " | " | " |
| 11/18/93 | 1120 | 01-007 BH, Int 1 | 2 - Brass S | | | ✓ | | | | | | | " | " | " | " | " |
| 11/18/93 | 1130 | 01-007 BH, Field Duplicate | 2 - Brass S | | | ✓ | | | | | | | " | " | " | " | " |
| 11/18/93 | 1145 | 01-007 BH, MS/MSD | 2 - Brass S | | | ✓ | | | | | | | " | " | " | " | " |
| 11/18/93 | 1200 | 01-007 BH, Int 2 | 2 - Brass S | | | ✓ | | | | | | | " | " | " | " | " |

Sampler's Signature

Erik E. Prokeg

Affiliation

SITE

Time

11/18

Number

1

Transfers Relinquished By

Erik E. Prokeg

Transfers Accepted By

R. K. Kahan

Date

11/18/93

Time

1.55

Additional Comments:

Turn-Around-Time: ☒ Normal ☐ Rush

Due Date

(specify due date, surcharges may apply)

CHAIN OF CUSTODY RECORD

15 Belmont Street, Worcester, Massachusetts 01605
Phone: (508) 753-3738 • Fax: (508) 754-7056

Sheet 7 of 2[illegible]

EARL PARKER

OPTECH

4100 NW ~~W~~ LOOP #10

SUITE 230, SA TX

12101 731-0000

WORCESTER ANG'S

1315-113

| SUN | MON | TUE | WED | THU | FRI |
|--|--|---|--|---|---|
| Fly in LA GUAR Go to Roslyn | Pick up Supplies At Roslyn ANG's Drive to Worcester Stake drill locations, Lab. | BEGIN Drilling 01-001 BH 01-002 BH 01-003 BH First Internal 01-012 BH | Drilling 01-012 BH Int 2 01-014 BH 01-013 BH 01-006 BH 01-005 BH 01-009 BH 01-010 BH FB & EB #1 FB & EB #2 | Drilling 01-015 BH 01-011 BH 01-009 BH 01-007 BH 01-008 BH FB & EB #3 | Move back to New York. Deposit Supplies at Roslyn Fly back to San Antonio |
| 14 | 15 | 16 | 17 | 18 | 19 |

DAY 1 14 Nov 93

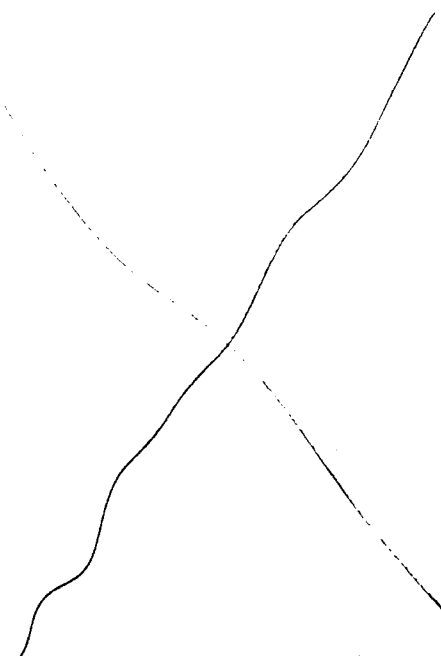
0830 ARRIVE at Airport.

0930 Depart SA

1545 Arrive at La Guardia Airport
Go to Rental Agency for
vehicles.

1900 Depart Rental Agency. Go
to Roslyn.

2000 Arrive at Roslyn Claremont
Hotel.



Earl E. Lantz

11/14/93

11.5 hrs

Day 2 Mon 15 Nov 93

0630 DEPART HOTEL
Go to Roslyn ANG5 for Supplies.

Meet w/ CPT Johnson and
pick up supplies at Roslyn ANG5.

0730 RETURN to Hotel
Check out and depart for
Worcester.

1200 Arrive in Worcester. Drive
by Worcester ANG5. Check
into Hotel to check on
supplies.

1330 Arrive back at Worcester ANG5.
Meet LTC Bellino. Introduces
John Richardson - Berms ANG5
Pete McGinnis - Worcester ANG5
Walk site. Look over drilling
locations.

1400 Mark Zork from TDS (Drillers)

Arrives and meets w/ us.
looks over site and checks
California Split-Spoon sampler
for compatibility. Says it
looks fine.

During the site walk, power lines are
above the back fence line. These
lines will prevent the driller from
setting up right along the fence.

The Power lines ARE NOT ACTIVE.

Two of the three fence line borings
will be hand augered.

All borings are marked and Sgt
Pete McGinnis has given conditional
clearance for digging. No underground
utilities or tanks were found or
identified near bore holes.

1550 SP. JA and JB depart
Sik. EP and JA go to
REVER Lab for meeting

1610 EP and JA arrive at
REUET Lab. Meet with
Edward Taylor - Manager
David Toupin - Lab Tech.
- All parameters look fine.
Receive Ice Chest w/ all
sample bottles.

1700 Go to Store for D-I Water,
Aluminum foil, and Baggies.

1820 Return to Hotel

1930 Begin to prepare sample
packets w/ labels, C-O-C,
and teflon seals.

2150 Set up PID to familiarize
with machine and charge
battery.

2230 Finish sampling plan.

Earl Edwards 11/16/93 (14 hrs)

DAY 3 TUESDAY Nov 16. 93

0745 E.P. and J.B. Arrive at the
Site. Begin to Set up on
01-001 BH where activities will
begin.

0845 Drillers arrive at the Site.
Walk driller through the
site and identify all drilling
locations. After inspection of
the site. The driller will attempt
to move the rig under the
dead power lines to drill next
to the fence.

Begins to move rig to
01-001 BH.

0910 Bill Hedberg arrives from
HAZWARP. EP introduces to
Optech group and briefs on
the situation.

0915 All set up. Preparing to begin.

0915

SAFETY BRIEFING

SSO: Earl Parker OPTECH

Independent Safety Officer: Jerry Arriaga

Joe Byrd - OPTECH

Pete Newsham - TDS

Scott Lombard - TDS

Bill Hedberg - HAZWRAP

Initial Safety Briefing

- Review Site History, Spill History
- Site Environment, Potential Hazards
- Safety considerations, Emergency Procedures. Authorized Driller to

Stop work if safety violation occurs.

WEATHER: Clear, Cool, Hi - low 60's

Winds out of the East 5-10 mph.

0930

SET UP ON 01-001 BH

CALIBRATE PID (100 PPM Isobutylene)

0940

BEGAN DRILLING 01-001 BH

Interval 1

0.5 - 2.0' BLS

STP - 19

20

15

0.5 - 1.0' BLS

1.0' - 1.5' BLS

1.5' - 2.0' BLS

PID - Opening 0.5 PPM

Soil is Coarse to Medium Grained
Quartz Sand w/ abundant rounded
gravel.

PID Headspace 1.6 PPM

Bedrock at 2.0' BLS

Cannot take another interval
at this location

1010 hrs. Move off 01-001 BH.

1040 hrs. Move to 01-002 BH

1100 Begin drilling 01-002 BH

Bill Loder, INGRASSIA/CEVE

Arrives on site. EP gives

briefing. 01-002 BH approved

again by Sgt McGinnis.

(1100)

1100 01-002 BH

Interval 1 0.5 - 2.0' BLS

SPT - 15

0.5 - 1.0

29

1.0' - 1.5'

30

1.5' - 2.0'

P10 opening: 0.6 PPM

Soil is coarse to medium grained sand and quartz. Abundant rounded to angular gravel. Abundant large blocks of granite.

Headspace: 1.2 PPM

01-002 BH

Interval 2 2.5 - 2.75' BLS

SPT = 31

2.0 - 2.5

50 2.5 - 2.75'

No Recovery for Analytical work

P10 - 0.5 spoon open

15 min headspace - 1.0 PPM

(1200)

1130 Complete Work at 01-002 BH

Moving to 01-003 BH

(1230)

1200

Shut down for lunch
J.A goes to Lab for BTEX standard and Get GC from Hotel.

(1315)

1245 BEGIN to Drill AGAIN at

01-003 BH

Interval 1 0.5 - 1.5' BLS

SPT - 24 0.5 - 1.0' BLS

36 1.0' - 1.5' BLS

41 1.5' - 2.0' BLS

No recovery. Move 1' East

8 - 0.5 - 1.0' BLS

10 1.5 - 2.0' BLS

23 2.0' - 2.5' BLS

P10 on open 62.7 PPM

Background ~ 60.0 from roofing work on Bldg 1.

Wind shifts so I recalibrate.

15 min headspace 5.5 PPM

(Background 4.6)

(1315)

1245 Surveyors Joe Taper Arrives

At Site to visit. Gets briefing on Survey work and gone.

Int 2
SPT 29 0 Int 2.0 - 3.5' BLS
27 - 2.0 - 2.5' BLS
42 2.5 - 3.0' BLS
3.0' - 3.5' BLS
Soil is coarse to fine sand. Mostly
fine w/ some silt. Poorly sorted w/
few gravel particles. Reelable PID
No recovery for Headspace.

Int 3
SPT 52 3.5' - 5.0' BLS
54 - 3.5' - 4.0'
35 - 4.0' - 4.5'
- 4.5' - 5.0'

(1610) PID 1.5 RPM
1540 Drillers shutdown.
Move off hole. Remain over-
boring.
(1625) Drillers depart site

* ALL TIMES ARE 30 MIN

SLOW *

1640 Bill Ladders departs site.

Breaking down Site.

EP prepares chain-of-custody for
daily sampling.

1700 Pack up supplies. EP and JB
depart site for REVET (abs).

1715 Arrive at LAB.

Turn in Samples.

Obtain additional Trip Blank
and ice chest.

1740 Arrive back at hotel.

1930 Work on sampling plan
for tomorrow (Nov 17)

2230 Finish for the day

S. C. D. 1.5 11/16/92 (14hs)

01-003 BH

Interval 2

SPT 18 2.0' - 3.5' BLS
24 2.0 - 2.5 BLS
20 2.5 - 3.0 BLS
3.0 - 3.5' BLS

P10 - 4.2 PPM

Dark Brown medium to coarse sand
w/ abundant Angular to subangular
gravel. Some large Angular rocks
Recalibrating P10 to 100 PPM Isobutylene

Interval 3

SPT 28 - 3.5' - 4.0' BLS
31 - 4.0' - 4.5' BLS
43 - 4.5' - 5.0' BLS
P10 2.3 PPM

No Recovery

Drilling to 7.0' BLS

Interval 4

SPT 15* - 7.0' - 8.5' BLS
- - 7.0 - 7.5' BLS
- - 7.5 - 8.0' BLS
- - 8.0 - 8.5' BLS

Spoon began to "bounce" from the
hammer blows.

Penetrated .75' w/ Spoon

Interval 2 for Analytical Analysis

7.0 - 7.75' BLS

P10 17.5 PPM

Soil is medium sand, light brown
to brown. finer sand w/ some
silt. Smaller and fewer pebbles.

No fill material present. Slightly
moist. Not enough for P10 Headspace.

(1510)

1440 finished at 07-003 BH

Drillers could not penetrate with
Augers. Successful at obtaining

A sample prior to Auger refusal.

Moving to 01-0126H

(1530)

1500 BEGIN AT 01-012 BH

Interval 1

0.5' - 1.5' BLS

SPT 24 - 0.5' - 1.0'
28 - 1.0' - 1.5'
41 - 1.5' - 2.0'

P10 - Opening : 3.5 PPM

WEDNESDAY DAY 4 Nov 17 93

0630 EP and JB arrive at site.
begin to set up.

0700 Drillers arrive at site.
From Bill Hedberg (Hawrup) arrives
at site. J.A. goes to store
for supplies.

0710 Safety Briefing
Earl Parker SSO } optech
Joe Byrd
Pete Newsham } TDS
Scott Lombard
Bill Hedberg

Weather Clear and Cool. Temp $\approx 40^{\circ}\text{F}$
Hi today mid 50's. Rain in
the forecast for late afternoon.
Winds out of the southwest at
5 to 10 mph.

0720 Calibrate P10 (100 ppm [subtle])

0730 Drillers begin in 01-012BH hole
from yesterday. Will drill to bedrock

0735 Bedrock encountered at 7.5' BCS
Will grout hole and move 2' towards
fence and drill to 5.5' BCS for
2nd Interval.

0945 Start drilling 01-012BH at
next hole for 2nd interval.

0950 JA goes back to hotel for Calibration
for GC.

0800 begin Sampling 01-012BH Int 2
5.5 - 7.0

STP 12 - 5.5 - 6.0' BCS

10 6.0 - 6.5' BCS

17 6.5 - 7.0' BCS

P10 on opening: 5.7 PPM

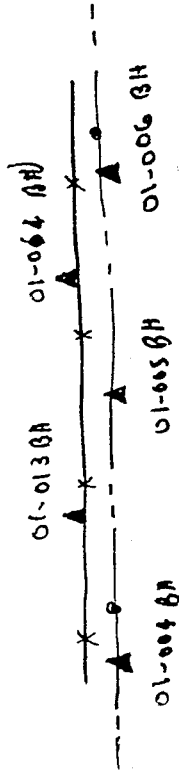
Soil is a brown fine to medium grained
Sandy fill. few gravels, Angular to
subrounded. Bottom of the sample is black,
moist and with slight odor.
U.S.D.N. 2 PPM

0830 Drillers move to clean Augers
Preparing for a Rensselaire and Field
Blank. Field Blank #1, Equipment Blank #1.

0920 Drillers wait to get fuel for
generator to steam clean Augers.
JA and JB are preparing to
get two hand Auger samples.

0930 Drillers begin Steam Cleaning
JA and JB move to hand Auger
two additional holes along the
back fence line.

Two additional hand Auger locations
designated (01-013 BH and 01-014 BH)
will be installed along the back
fence line outside the ANG's boundary.
Soil Samples will be taken from .5
to 1.5 BLS at each location.



Bill Lodder and Bill Hedberg depart S.H.
for Barnes ANG's. Will return ~ 1500 hrs.

1000 JA and JB obtain 01-014 BH
at 0.5' - 1.5' BLS
PID 1.5 PPM

Soil is a coarse sand with gravel
and large angular cobbles.
Mostly coarse sand, light brown.
Hand augering difficult after 1.0' BLS
due to gravel and cobble fill.

Head space 1.8 PPM

1015 Obtain 01-013 BH at

0.5' - 1.5' BLS

PID 2.1 PPM

Soil is dark brown, coarse sand with
gravel and large angular cobbles. Again,
drilling with hand Auger difficult after
1.0' BLS due to gravel and cobbles.

Head space 1.8 PPM

1030 Drillers begin at 01-006 BH

1030 01-006 BH 0.5 - 2.0
 SPT 28 - 0.5 - 1.0 BLS
 31 1.0' - 1.5' BLS
 39 1.5' - 2.0' BLS

Sig Rock in spoon. No recovery.
 Drilling down to 2.0' to resample.

Gravel interval 2.0' - 4.0' BLS.
 Moving to resample. Will drill
 and sample at 4.0

Interval 1 4.0 - 5.5' BLS
 SPT 4 - 4.0 - 4.5' BLS
 16 4.5' - 5.0' BLS
 21 5.0' - 5.5' BLS

210 1.9 PPM

Soil is dark, moist and medium
 sand with many large and broken
 rock fragments. Angular bolder and
 gravel particles.

Headspace : 2.2 PPM

Drilling to 7.0' to sample

1045

Interval 2 7.0' - 8.5' BLS
 SPT - 8 - 7.0 - 7.5' BLS
 16* 7.5 - 8.0' BLS
 - 8.0' - 8.5' BLS

* Spoon began to bounce off the
 bottom. Would not proceed after
 the first 16 blows. 50 blows
 to formal refusal.

PID - 8.0 PPM

Soil, fine to medium dark brown
 sand. Bottom interval is
 wet. Top interval is very
 moist. Many small angular
 gravel and small cobble fragments.

No soil recovery for field GC
 analysis.

1100 Moving off 01-006 BH to
 01-005 BH. JA and JB

Moving to obtain hand augers
 at 01-008 BH. Difficulty penetrating
 11.0' 1 foot Enc. water.

Recalibrate PID (100 PPM [substance])
Small from Roofing is blowing our
way again today.

1110 BEGIN drilling at 01-005 BH

SPT 7 - 0.5 - 1.0' BLS
14 1.0 - 1.5' BLS
17 1.5 - 2.0' BLS

PID 2.3 PPM

Soil is light brown mud to coarse
sand w/ gravel. Poorly sorted with
fine sand and some gravel particles.

Headspace: 1.4 PPM

Interval 5.0' - 6.5'
SPT 4 - 5.0' - 5.5'
4 - 5.5' - 7.0' 6.0'
7 - 7.0' - 8.5' 7.5'
6.0 - 7.5

PID: 1.8 PPM

Large Root in sampler. Minimum
recovery. No Soil to Analyze.

Interval not used for analysis
Drilling to 7.0' BLS.

Encounters Gravel interval at 6.5' BLS.

Encountered Bedrock at 8.0' BLS.
Will move over 2 feet and drill
for second interval.

1210 Move over to drill to 6.0' BLS
to obtain last sample.

1215 J.A. obtains 01-0108H hand

Auger.

PID 1.5 PPM

Very moist to wet soil. Very organic
with roots and weed chips. Bedrock crops
out all over. Soil is used to fine
grained sand w/ abundant gravel and
cobble. Very poorly sorted.

Headspace 1.3 PPM

1230 Drill Interval 2 at 01-005 BH.

SPT - 3 - 6.0-6.5' BLS
4 - 6.5-7.0' BLS
50* - 7.0-7.5' BLS

Drill pounded last interval to
formal refusal at 7.6' BLS. Brought
Auger to bedrock. Bounced in hole
at 50' SPT.

PID - 1.7 PPM

Soil is wet at bottom, very moist
at top. Dark brown, medium sand
with angular gravel and granite
fragments.

Headspace: 2.7 PPM.

1240 Begin to grout 01-005 BH.

Moving to 01-004 BH

Starts to rain. Move sample

prep area into Bldg 2. (Shipl.)

Recalibrate PID (100 PPM Isobutylene)

1315 Begin to drill at 01-004 BH

1320 Interval 1 0.5-2.0' BLS

SPT - 16 - 0.5-1.0' BLS
27 - 1.0-1.5' BLS
29 - 1.5-2.0' BLS

PID - 3.1 PPM

Soil is moist and cohesive. Medium to
fine sand with abundant angular gravel.

Headspace: 1.6 PPM

Interval 2 5.0-6.5' BLS

SPT - 10 - 5.0-5.5' BLS
18 5.5-6.0' BLS
14 6.0-6.5' BLS

PID: 1.7 PPM

No Recovery. Will Drill to
7.0 and drill third interval. Rock
in the spoon. Gravel interval at
4.5' BLS. During Augering to 5.0.

Interval 3 7.0-8.5' BLS

Encountered bedrock at 7.5' BLS.

Spoon could not be driven.

Moving over 1 foot and drill to 5.0'

1400 Interval 2 for 01-004 BH
5.0 - 6.5 (or bedrock)

SPT 5 5.0 - 5.5' BLS
8* 5.5 - 6.0' FLS
- 6.0' - 6.5' BLS

* Encountered bedrock - Then 50 SPT blows.
PID - 1.3 RPM

Soil is moist, brown, slightly cohesive
Medium to fine sand with wood
fragments and some black fill. Medium
gravel, some cobbles. Sandstone 0.8 RPM

1420 Rain coming down harder.

JA and JB take Field Blank #2.
And Equipment Blank #2.

1430 Drillers complete drilling. Beginning
to grout 01-004 BH.

Total Drilling

65.5' Total depth drill
1 hour Steam Clean Time.

1445 BEGIN SITE MAINTENANCE.

- Drillers Steam cleaning Aggs.
- JA and JB are Arranging
equipment.

1530 - Drillers Arranging drums in
the storage area. Consolidating
drums.

1550 Bill Laddar and Bill Hedberg return
to site.

Drillers depart site. Will return
in AM to complete cement
work at site.

1630 EP finishes Chain of Custody and
samples are loaded in the van.
JA and JB inventory equipment.
Rain lets up finally.

1640 EP and JB depart site for
REUET LABS.

JA returns to hotel.

1700 Depart Lab for Hotel

(13.5 hrs)

EQ Station 11/17/93

THURSDAY DAY 5 Nov 18, 93

0710 EP and JB arrive at site.
begin to set up clean and
sample pump area for hand
augers.

0730 Steve Bliss - TDS arrives and
begins to cement boreholes.

0755 Bill Loader arrives at the
site.

0810 Joe Tober and Everett arrive from
Tanner Survey. Begin to set
up for survey.

0830 G.A. Arrives at the site. Set
up for hand augers

0835 Safety Briefing
Earl Parker
Joe Byrd
Jenny Annaga

Weather: Mostly Clear, winds SW,
Temp. 60-40s: High Low 50s.

Preparing to finish sampling. J.B. will
hand Auger off the station. J.A. will
clean and EP will prep and
describe samples. Steve Bliss finishes
and departs site. Begin sampling.

0930 Sample 01-015BH
Int 0.0-1.0' BCS
PID = 1.5 PPM

Create sampling point 15 on fence line.
Soil is sandy fill material. Many gravel.

Headspa: 1.0 PPM
0945 Sample 01-015 BH Field Duplicate
Int 0.0-1.0' BCS
PID = 0.8 PPM

Field duplicate taken 1 inch from sample
location at the same interval. Sandy
fill material. Unable to proceed deeper.

~~Headspa: 2.8 PPM of No headspa
taken~~
1010 Sample 01-015 BH MS/MSO
Int 0.0'-1.0' BCS
PID: 0.5 PPM

1015 Sample 01-011 BH

0.0 - 1.0' BLS

PID = 0.8 PPM

Headspace = 2.8 PPM

1040 Sample 01-011 BH

0.0 - 1.0' BLS FIELD DUPLICATE

PID = 0.5 PPM

Sandy fill material. Medium sand
with many gravel particles. Slope
is steep w/ many boulders exposed.

Could not penetrate below 1.0 for
2nd Interval at 01-011 BH. Enc. Bedrock.

1100 Sample 01-009 BH Int 1.

0.0' - 1.0' BLS

PID: 0.2 PPM

Very moist to wet sandy soil. Water
at 6 inches BLS. No odor present.

1110 Sample 01-007 BH 0.0' - 1.0' BLS

PID: 0.5 PPM

Moved to 3 feet above bottom of
fill slope. Sandy, medium sand with
lot of gravel.

Headspace: 0.3 PPM

Bill Ladder Departs site. Gone for trip.

1130 Sample 01-007 BH 0.0' - 0.0' BLS

PID: 0.3 PPM FIELD DUPLICATE

1145 Sample 01-007 BH 0.0' - 1.0' BLS

PID: 0.3 PPM MS/MSD

1200 Sample 01-007 BH Interval 2

PID: 0.0 PPM 1.0' - 2.0' BLS

Sampled to the Bedrock at 2.0' BLS
1215 ~~if~~ Unable to proceed with

hand Niger any further.

LAST hand auger.

Headspace: 0.0 PPM

1215 Finished sampling, began to break

down decon and sample area.

Prepare to take Field Blank #3 and
Equipment Blank #3.

1245 JA and JB take Equipment Blank #3

1300 JA and JB take FIELD Book #3

1315 EP begins to place samples and prepare Chain of Custody.

JB does clean-up around the sites.

JA inventories and packs equipment

1330 Surveyors complete work at the site. Depart Station.

1350 DEPART SITE ⁰ Finished w/ field activities at Worcester NUS.

E.P. and J.B. and J.A. go to REUET to turn in samples.

1430 Return to Hotel

Prepare for HRS info and going to MADEP for information

1530 JA and JB go to Library for HRS population info.

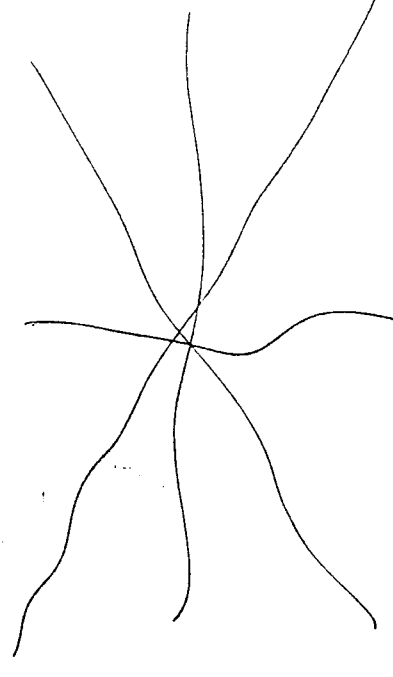
EP goes to MADEP for info left by Mary Gardner.

1620 back at hotel.
Pack up rental equipment for Return.
J.A. must shoot remaining samples.

1730 EP, JA, and JB return to hotel library to obtain population info for HRS.

1830 Depart Library.

- Continue to box up rental equipment and pack up.



Earl E. Lantz

11/18/93

11.5 hrs

FRIDAY DAY 6 Nov 19, 1993

Soil Descriptions from GC Samples

01-001 BH 0.5'-2.0' BCS

Poorly sorted fill material. Mostly
A medium to coarse sand with silt.
Mostly brown silt (about 50% volume)
Some clay particles present. Slightly
cloudy after 5 minutes

01-002 BH 0.5'-2.0' BCS

Poorly sorted fill material. More
grey with more silt. (about 10%).
Mostly coarse to medium sand. Little
clay sized particles. Clearing after
5 minutes.

01-003 BH 0.5'-1.5' BCS

Poorly sorted coarse sand. Some
fine sand with silt. Brown.
Silt (10%) Some clay particles. Cloudy
after 5 minutes.

01-003 BH 2.0'-3.5' BCS

Poorly sorted coarse sand. More
gray and more silty. (20%).
Very little clay particles.

01-012 BH 2.0-2.75' BCS

Poorly sorted coarse sand. Brown
with silt (20%). Very little clay
particles. Clearing after 3 minutes.

01-012 BH 0.5'-1.5' BCS

Medium to fine sand. Grey with
abundant silt and clay. Mostly
fine sand and silt. (50% silt)
with abundant clay.

INTERVAL 3

Coarse sand, poorly sorted with
silt. (20%). Clear after 2 min.
Very very little clay.

01-004 Int 1

Coarse sand with some silt. Poorly
sorted fill material.

01-005 Int 1

Coarse sand with silt.

01-005 Int 2

Grey fine sand and silt
with abundant clay

01-006 BH

4.0' - 5.5' BCS

Brown poorly sorted coarse sand
with silt (20%).

01-015 BH

0.0 - 1.0' BCS

Mostly med to fine sand with
silt. Clay also abundant

01-011 BH

0.0 - 1.0' BCS

Mostly fine to med sand with
abundant silt and clay.

01-009 BH

0.5 - 1.0' BCS

Medium sand. Silt and clay present.

01-007 BH

1.0' - 2.0' BCS

Medium sand. Silt and clay.

01-007 BH

0.0' - 1.0' BCS

Medium to coarse sand with
some silt.

01-013 BH

0.5 - 1.5' BCS

Medium sand, some silt and
clay.

01-014 BH

0.0 - 0.0' BCS

Very poorly sorted medium sand

01-012 BH

5.5 - 7.0'

Black to brown coarse sand with
staining on glass. Petroleum odor
in vial

01-010 BH

Int 1

Dark brown medium to fine sand
with silt and clay.

JA departs Worcester

0730

EP and JB depart Worcester

0700

Drive to LAGuardia Airport in New
York to return to SA

Earl Edwards 11/19/93

INVESTIGATION DERIVED WASTES Drum Inventory

8 Drums

- * DECON WATER
- * DECON WATER
- * 01-003 BH
- * 01-004 BH
- * 01-002 BH
- * 01-006 BH
- * 01-001 BH
- * 01-012 BH
- * 01-005 BH

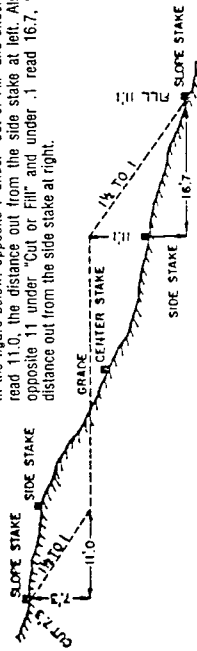
* DRUM 01-002 BH is
this labeled; 01-002BH is
01-012 BH

* DRUM 01-012 BH is
this labeled; 01-012BH is
01-002 BH

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



| Cut or Fill | Distance out from Side or Shoulder Stake | | | | | | | | | | Cut or Fill |
|-------------|--|------|------|------|------|------|------|------|------|------|-------------|
| | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 0 | 0.0 | 0.2 | 0.3 | 0.5 | 0.6 | 0.8 | 0.9 | 1.1 | 1.2 | 1.4 | 0 |
| 1 | 1.5 | 1.7 | 1.8 | 2.0 | 2.1 | 2.3 | 2.4 | 2.6 | 2.7 | 2.9 | 1 |
| 2 | 3.0 | 3.2 | 3.3 | 3.5 | 3.6 | 3.8 | 3.9 | 4.1 | 4.2 | 4.4 | 2 |
| 3 | 4.5 | 4.7 | 4.8 | 5.0 | 5.1 | 5.3 | 5.4 | 5.6 | 5.7 | 5.9 | 3 |
| 4 | 6.0 | 6.2 | 6.3 | 6.5 | 6.6 | 6.8 | 6.9 | 7.1 | 7.2 | 7.4 | 4 |
| 5 | 7.5 | 7.7 | 7.8 | 8.0 | 8.1 | 8.3 | 8.4 | 8.6 | 8.7 | 8.9 | 5 |
| 6 | 9.0 | 9.2 | 9.3 | 9.5 | 9.6 | 9.8 | 9.9 | 10.1 | 10.2 | 10.4 | 6 |
| 7 | 10.5 | 10.7 | 10.8 | 11.0 | 11.1 | 11.3 | 11.4 | 11.6 | 11.7 | 11.9 | 7 |
| 8 | 12.0 | 12.2 | 12.3 | 12.5 | 12.6 | 12.8 | 12.9 | 13.1 | 13.2 | 13.4 | 8 |
| 9 | 13.5 | 13.7 | 13.8 | 14.0 | 14.1 | 14.3 | 14.4 | 14.6 | 14.7 | 14.9 | 9 |
| 10 | 15.0 | 15.2 | 15.3 | 15.5 | 15.6 | 15.8 | 15.9 | 16.1 | 16.2 | 16.4 | 10 |
| 11 | 16.5 | 16.7 | 16.8 | 17.0 | 17.1 | 17.3 | 17.4 | 17.6 | 17.7 | 17.9 | 11 |
| 12 | 18.0 | 18.2 | 18.3 | 18.5 | 18.6 | 18.8 | 18.9 | 19.1 | 19.2 | 19.4 | 12 |
| 13 | 19.5 | 19.7 | 19.8 | 20.0 | 20.1 | 20.3 | 20.4 | 20.6 | 20.7 | 20.9 | 13 |
| 14 | 21.0 | 21.2 | 21.3 | 21.5 | 21.6 | 21.8 | 21.9 | 22.1 | 22.2 | 22.4 | 14 |
| 15 | 22.5 | 22.7 | 22.8 | 23.0 | 23.1 | 23.3 | 23.4 | 23.6 | 23.7 | 23.9 | 15 |
| 16 | 24.0 | 24.2 | 24.3 | 24.5 | 24.6 | 24.8 | 24.9 | 25.1 | 25.2 | 25.4 | 16 |
| 17 | 25.5 | 25.7 | 25.8 | 26.0 | 26.1 | 26.3 | 26.4 | 26.6 | 26.7 | 26.9 | 17 |
| 18 | 27.0 | 27.2 | 27.3 | 27.5 | 27.6 | 27.8 | 27.9 | 28.1 | 28.2 | 28.4 | 18 |
| 19 | 28.5 | 28.7 | 28.8 | 29.0 | 29.1 | 29.3 | 29.4 | 29.6 | 29.7 | 29.9 | 19 |
| 20 | 30.0 | 30.2 | 30.3 | 30.5 | 30.6 | 30.8 | 30.9 | 31.1 | 31.2 | 31.4 | 20 |
| 21 | 31.5 | 31.7 | 31.8 | 32.0 | 32.1 | 32.3 | 32.4 | 32.6 | 32.7 | 32.9 | 21 |
| 22 | 33.0 | 33.2 | 33.3 | 33.5 | 33.6 | 33.8 | 33.9 | 34.1 | 34.2 | 34.4 | 22 |
| 23 | 34.5 | 34.7 | 34.8 | 35.0 | 35.1 | 35.3 | 35.4 | 35.6 | 35.7 | 35.9 | 23 |
| 24 | 36.0 | 36.2 | 36.3 | 36.5 | 36.6 | 36.8 | 36.9 | 37.1 | 37.2 | 37.4 | 24 |
| 25 | 37.5 | 37.7 | 37.8 | 38.0 | 38.1 | 38.3 | 38.4 | 38.6 | 38.7 | 38.9 | 25 |
| 26 | 39.0 | 39.2 | 39.3 | 39.5 | 39.6 | 39.8 | 39.9 | 40.1 | 40.2 | 40.4 | 26 |
| 27 | 40.5 | 40.7 | 40.8 | 41.0 | 41.1 | 41.3 | 41.4 | 41.6 | 41.7 | 41.9 | 27 |
| 28 | 42.0 | 42.2 | 42.3 | 42.5 | 42.6 | 42.8 | 42.9 | 43.1 | 43.2 | 43.4 | 28 |
| 29 | 43.5 | 43.7 | 43.8 | 44.0 | 44.1 | 44.3 | 44.4 | 44.6 | 44.7 | 44.9 | 29 |
| 30 | 45.0 | 45.2 | 45.3 | 45.5 | 45.6 | 45.8 | 45.9 | 46.1 | 46.2 | 46.4 | 30 |
| 31 | 46.5 | 46.7 | 46.8 | 47.0 | 47.1 | 47.3 | 47.4 | 47.6 | 47.7 | 47.9 | 31 |
| 32 | 48.0 | 48.2 | 48.3 | 48.5 | 48.6 | 48.8 | 48.9 | 49.1 | 49.2 | 49.4 | 32 |
| 33 | 49.5 | 49.7 | 49.8 | 50.0 | 50.1 | 50.3 | 50.4 | 50.6 | 50.7 | 50.9 | 33 |
| 34 | 51.0 | 51.2 | 51.3 | 51.5 | 51.6 | 51.8 | 51.9 | 52.1 | 52.2 | 52.4 | 34 |
| 35 | 52.5 | 52.7 | 52.8 | 53.0 | 53.1 | 53.3 | 53.4 | 53.6 | 53.7 | 53.9 | 35 |
| 36 | 54.0 | 54.2 | 54.3 | 54.5 | 54.6 | 54.8 | 54.9 | 55.1 | 55.2 | 55.4 | 36 |
| 37 | 55.5 | 55.7 | 55.8 | 56.0 | 56.1 | 56.3 | 56.4 | 56.6 | 56.7 | 56.9 | 37 |
| 38 | 57.0 | 57.2 | 57.3 | 57.5 | 57.6 | 57.8 | 57.9 | 58.1 | 58.2 | 58.4 | 38 |
| 39 | 58.5 | 58.7 | 58.8 | 59.0 | 59.1 | 59.3 | 59.4 | 59.6 | 59.7 | 59.9 | 39 |
| 40 | 60.0 | 60.2 | 60.3 | 60.5 | 60.6 | 60.8 | 60.9 | 61.1 | 61.2 | 61.4 | 40 |

"Rite in the Rain"—a unique all-weather writing surface created to shed water and to enhance the written image. Makes it possible to write sharp, legible field data in any kind of weather.

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TACOMA, WA 98421-3696 USA

Lub (508) 753-3738



Name JERRY ARRIAGA

Address OPTECH

4100 N. W. Loop 410 # 230 San Antonio TX 78221

Phone (210) 731-0000

Project Worcester ANG's

1315 -113

CONTENTS

ENO. REFERENCE DATE

SUNDAY/Nov 14 / 1993

09:00 Arrive to Airport

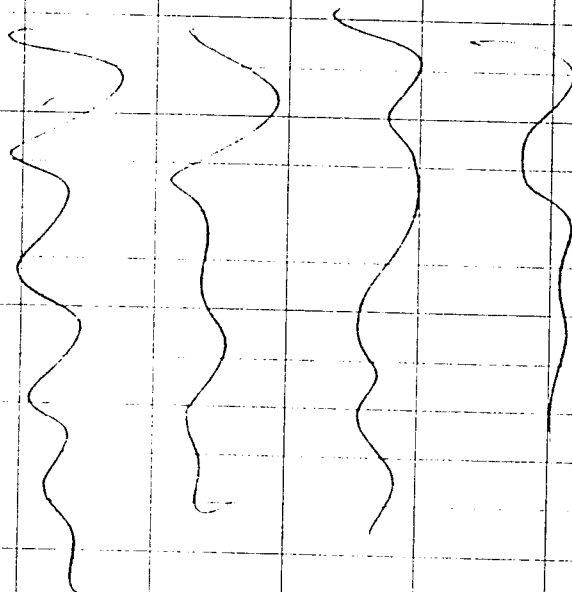
09:30 Depart to New York

15:50 Arrive to New York

Went to Dollar Rent a Car
waiting for van.

SA
~~19:50~~

20:10 Arrive at Hotel.



SA

SA

SA

SA

110 hrs

MONDAY Nov 15 1993

06:30 Left Clairmont Hotel to
Roslyn ANGIS to pickup
box. Met with captain Jensen.

07:40 Went back to Hotel to
check out.

08:30 Left to Worcester

12:00 Arrive at Worcester,
went to Base, and then
to Hotel.

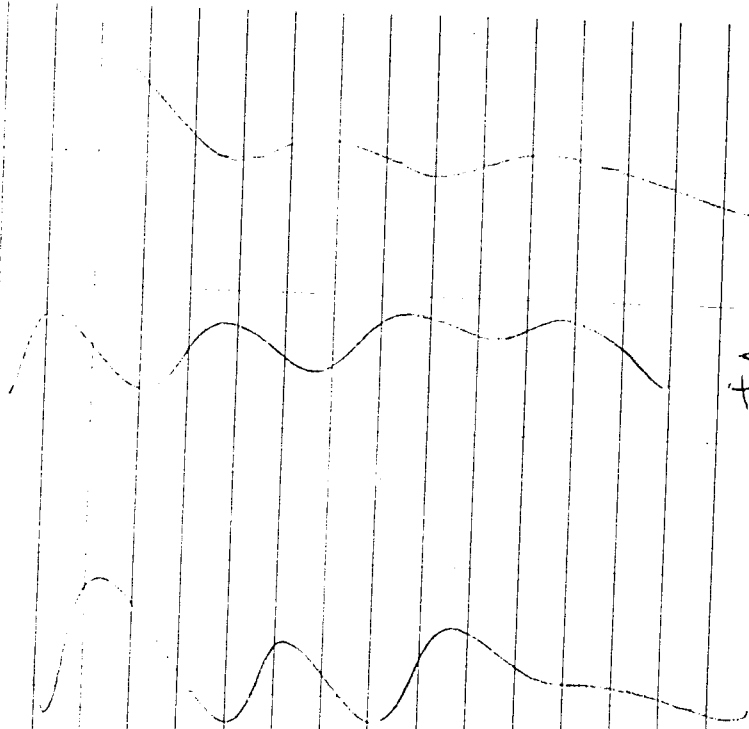
13:45 Arrive at Worcester ANGIS
to stake out site. Met
with Base personnel.

Site is surveyed for electrical
cables, utilities, etc. The bearings
location are marked on the pavement.

15:50 Leave to the Lab with EP

17:10 Leave to Supermarket to
buy supplies

18:30 Arrive at Hotel



JA

JA

JA

14 hrs

TUESDAY / Nov 16 / 1993

07:30 Leave Hotel for Port Tape JA

08:30^{JA} Arrive at Base (JA, EP, BH)
are at the Base.

08:45 Drillers arrive at Site.
Setting up Decon station

09:15 Bill Hebbert from HAZWOPAR
arrives at the site.
EP, JA, JB, BH and Drillers
have safety briefing.

09:35 Begin drilling CI-CO1 BH Background
Bedrock at 2' BLS

10:40 Moving to CI-CO2 BH

11:05 Begin drilling CI-CO2 BH
waiting for ANGB to
approve location of Boring

11:30 Borehole finished.

12:00 Leaving to Hotel to

pick up GC.

12:30 Go to lab to pick up BTEX standard.

13:00 Arrives at the Base. Start setting up GC. EP drilling 01-003 BH.

14:30 Poring 01-003 BA finished moving to 01-012 BH.

15:35 Drilling shut down. Did not get ~~any~~ samples at 5 ft deep.

16:35 Picking Dean Station.
Picking up GC station.

17:05 Leave Base.

17:30 Arrive at Hotel.

JA

21:00 Go ~~to~~ to parking lot to get soil samples from Van.

21:20 Preparing samples. Shooting GC sample 01-002 BH (0.5-20) BLS

21:30 Preparing ~~at~~ ^{JA} sampler collected to shooting in GC

Samples Shoot:

No evidence of contamination found

^{JA} 23:30 Finished shooting samples

}}}}}

11.5 hrs - JA + 2.5 hrs - JA

Wednesday Nov 17 1993

07:00 Arrive at site. Set up station.
action area

08:50 Leave base to run supplies

11:10 Back at Base. Drillers
are drilling BH12

07:50 Go to Hotel for BTEX stand.

09:20 JA & JB prepare to begin hand augering

10:00 JA & JB collect samples from 01-014 BH
move to another hole

10:50 JA & JB move to hole 01-008 BH

11:30 JB goes back to help EP.

12:15 JA obtain samples from 01-010 BH

13:00 Back at Decon station helping EP (JA)

14:15 Rain start to come Down JA & JB
taking Equipment Blank #2

14:45 JA & JB packing up equipment.

16:40 Leave to Hotel. Leave Site

21:40 Setting up GC at Hotel to run samples

23:30 Everything back clean.

TH Nov 18 02:00 Finish up GC work

14 Nov

Thursday / Nov 18 / 1993

08:45 Arrive at Site. EP and
JB have set up decon station.
Ready to start sampling hand
augers. Surveyors are at the site
locating all the boreholes.

08:50 Joe Byrd taking samples from
Hole Augers. He has not been able
to get recovery on 2nd interval at
each bore (Hurd)

12:00 Finished Doing all hand Bore.
Surveyors finish their work too.
Start making the supplies inventory
of the Box, and packing everything
up.

14:45 The SI is completed. Leaving to the
Hotel.

15:30 Going to Library with JB to look
for HRS information.

17:00 Back at Hotel with EP. Didn't find
enough info on HRS we go back to
Library with EP.

20:00 Running GC sampler. Samples
very clean.

23:00 Finish with GC work. Start boxing
the up boxes at the front desk

Friday / Nov 19 / 93

6:45 Checking out from hotel at
Worcester.

7:00 Putting gas Ready to Leave
to NY. Leave to NY. I
talked to Earl I will leave
early and will turn in the car

11:00 Arrive at New York.
Going to Drop the car
to Dollar Rent a Car.

12:00 Arrive at Airport. Checking
Bags

12:30 Departure has been delayed
from 1:15 to 1:45

13:45 Leaving New York

18:20 Arrive at San Antonio

19:00 Arrive at my house.

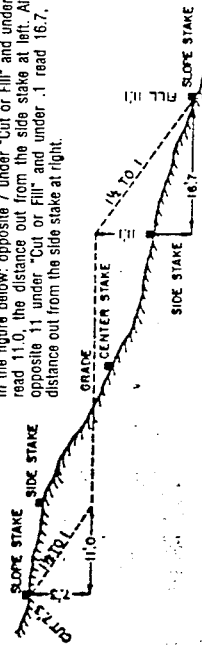
(11 hours)
(15 min)

7 } }

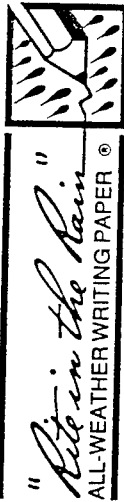
DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



| Cut or Fill | Distance out from Side or Shoulder Stake | | | | | | | | | | Cut or Fill |
|-------------|--|------|------|------|------|------|------|------|------|------|-------------|
| | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 0 | 0.0 | 0.2 | 0.3 | 0.5 | 0.6 | 0.8 | 0.9 | 1.1 | 1.2 | 1.4 | 0 |
| 1 | 1.5 | 1.7 | 1.8 | 2.0 | 2.1 | 2.3 | 2.4 | 2.6 | 2.7 | 2.9 | 1 |
| 2 | 3.0 | 3.2 | 3.3 | 3.5 | 3.6 | 3.8 | 3.9 | 4.1 | 4.2 | 4.4 | 2 |
| 3 | 4.5 | 4.7 | 4.8 | 5.0 | 5.1 | 5.3 | 5.4 | 5.6 | 5.7 | 5.9 | 3 |
| 4 | 6.0 | 6.2 | 6.3 | 6.5 | 6.6 | 6.8 | 6.9 | 7.1 | 7.2 | 7.4 | 4 |
| 5 | 7.5 | 7.7 | 7.8 | 8.0 | 8.1 | 8.3 | 8.4 | 8.6 | 8.7 | 8.9 | 5 |
| 6 | 9.0 | 9.2 | 9.3 | 9.5 | 9.6 | 9.8 | 9.9 | 10.1 | 10.2 | 10.4 | 6 |
| 7 | 10.5 | 10.7 | 10.8 | 11.0 | 11.1 | 11.3 | 11.4 | 11.6 | 11.7 | 11.9 | 7 |
| 8 | 12.0 | 12.2 | 12.3 | 12.5 | 12.6 | 12.8 | 12.9 | 13.1 | 13.2 | 13.4 | 8 |
| 9 | 13.5 | 13.7 | 13.8 | 14.0 | 14.1 | 14.3 | 14.4 | 14.6 | 14.7 | 14.9 | 9 |
| 10 | 15.0 | 15.2 | 15.3 | 15.5 | 15.6 | 15.8 | 15.9 | 16.1 | 16.2 | 16.4 | 10 |
| 11 | 16.5 | 16.7 | 16.8 | 17.0 | 17.1 | 17.3 | 17.4 | 17.6 | 17.7 | 17.9 | 11 |
| 12 | 18.0 | 18.2 | 18.3 | 18.5 | 18.6 | 18.8 | 18.9 | 19.1 | 19.2 | 19.4 | 12 |
| 13 | 19.5 | 19.7 | 19.8 | 20.0 | 20.1 | 20.3 | 20.4 | 20.6 | 20.7 | 20.9 | 13 |
| 14 | 21.0 | 21.2 | 21.3 | 21.5 | 21.6 | 21.8 | 21.9 | 22.1 | 22.2 | 22.4 | 14 |
| 15 | 22.5 | 22.7 | 22.8 | 23.0 | 23.1 | 23.3 | 23.4 | 23.6 | 23.7 | 23.9 | 15 |
| 16 | 24.0 | 24.2 | 24.3 | 24.5 | 24.6 | 24.8 | 24.9 | 25.1 | 25.2 | 25.4 | 16 |
| 17 | 25.5 | 25.7 | 25.8 | 26.0 | 26.1 | 26.3 | 26.4 | 26.6 | 26.7 | 26.9 | 17 |
| 18 | 27.0 | 27.2 | 27.3 | 27.5 | 27.6 | 27.8 | 27.9 | 28.1 | 28.2 | 28.4 | 18 |
| 19 | 28.5 | 28.7 | 28.8 | 29.0 | 29.1 | 29.3 | 29.4 | 29.6 | 29.7 | 29.9 | 19 |
| 20 | 30.0 | 30.2 | 30.3 | 30.5 | 30.6 | 30.8 | 30.9 | 31.1 | 31.2 | 31.4 | 20 |
| 21 | 31.5 | 31.7 | 31.8 | 32.0 | 32.1 | 32.3 | 32.4 | 32.6 | 32.7 | 32.9 | 21 |
| 22 | 33.0 | 33.2 | 33.3 | 33.5 | 33.6 | 33.8 | 33.9 | 34.1 | 34.2 | 34.4 | 22 |
| 23 | 34.5 | 34.7 | 34.8 | 35.0 | 35.1 | 35.3 | 35.4 | 35.6 | 35.7 | 35.9 | 23 |
| 24 | 36.0 | 36.2 | 36.3 | 36.5 | 36.6 | 36.8 | 36.9 | 37.1 | 37.2 | 37.4 | 24 |
| 25 | 37.5 | 37.7 | 37.8 | 38.0 | 38.1 | 38.3 | 38.4 | 38.6 | 38.7 | 38.9 | 25 |
| 26 | 39.0 | 39.2 | 39.3 | 39.5 | 39.6 | 39.8 | 39.9 | 40.1 | 40.2 | 40.4 | 26 |
| 27 | 40.5 | 40.7 | 40.8 | 41.0 | 41.1 | 41.3 | 41.4 | 41.6 | 41.7 | 41.9 | 27 |
| 28 | 42.0 | 42.2 | 42.3 | 42.5 | 42.6 | 42.8 | 42.9 | 43.1 | 43.2 | 43.4 | 28 |
| 29 | 43.5 | 43.7 | 43.8 | 44.0 | 44.1 | 44.3 | 44.4 | 44.6 | 44.7 | 44.9 | 29 |
| 30 | 45.0 | 45.2 | 45.3 | 45.5 | 45.6 | 45.8 | 45.9 | 46.1 | 46.2 | 46.4 | 30 |
| 31 | 46.5 | 46.7 | 46.8 | 47.0 | 47.1 | 47.3 | 47.4 | 47.6 | 47.7 | 47.9 | 31 |
| 32 | 48.0 | 48.2 | 48.3 | 48.5 | 48.6 | 48.8 | 48.9 | 49.1 | 49.2 | 49.4 | 32 |
| 33 | 49.5 | 49.7 | 49.8 | 50.0 | 50.1 | 50.3 | 50.4 | 50.6 | 50.7 | 50.9 | 33 |
| 34 | 51.0 | 51.2 | 51.3 | 51.5 | 51.6 | 51.8 | 51.9 | 52.1 | 52.2 | 52.4 | 34 |
| 35 | 52.5 | 52.7 | 52.8 | 53.0 | 53.1 | 53.3 | 53.4 | 53.6 | 53.7 | 53.9 | 35 |
| 36 | 54.0 | 54.2 | 54.3 | 54.5 | 54.6 | 54.8 | 54.9 | 55.1 | 55.2 | 55.4 | 36 |
| 37 | 55.5 | 55.7 | 55.8 | 56.0 | 56.1 | 56.3 | 56.4 | 56.6 | 56.7 | 56.9 | 37 |
| 38 | 57.0 | 57.2 | 57.3 | 57.5 | 57.6 | 57.8 | 57.9 | 58.1 | 58.2 | 58.4 | 38 |
| 39 | 58.5 | 58.7 | 58.8 | 59.0 | 59.1 | 59.3 | 59.4 | 59.6 | 59.7 | 59.9 | 39 |
| 40 | 60.0 | 60.2 | 60.3 | 60.5 | 60.6 | 60.8 | 60.9 | 61.1 | 61.2 | 61.4 | 40 |



Name Joe Byrd, Jr
OPTECH

Address 4100 NW Loop 410

San Antonio, TX 78229

Phone (210) 731-0000

Project Worcester

1315-113

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[illegible]

Arrive 6:00 4:50 am
Leave to Boston
Want 2 hrs at rental
Car

| | | |
|---------------|--------|-----------|
| 6:40 on leave | Hotel | Go to |
| | Rushan | Pick up |
| | Box of | Supplies. |

| | |
|--------|-----------------|
| 7:30am | Return to hotel |
| | Breakfast, pack |

| | |
|-------|---------|
| 08:30 | ⇒ 17:30 |
|-------|---------|

Drove To
Worcester

Leapeh

13:15 → 16:30

Arrived Stacked Out Location
(cont)

Met with:

John Richardson - Barnes AP66S
Pete Mc Harris - Substation Coord.
Mark Zork - Driver w/ TDS

16:30

Witnessed Car / Pedestrian
accident. Stayed at
scene to give police an
account of pedestrian's
ignorance.

Carl & Jerry went to Lab.
Met w/ John Carter

Tuesday 16 November 1953
(3)

0737 Leave hotel for base

0747 Arrive @ base

Start setting up (2)

01-001 BH

Safety Briefing - Carl Parker
Start Decontamination sleeves
& equipment

1040 → 11:00 Waited for

Sgt. Mc Harris to
OK site,

11:00 → 12:00 Decontamination

equipment as drilling
was done

30 EMB's with was off
12:00 → 12:54 lunch

12:54 → 16:15

Decontamination
staff

Stopped drilling →

16:15 → 17:12

Prepping up.
Recharging 5000 for
A. 20000000

Ticker samples to
Lab.

17:30

17:12 → Leave base
Go to trap end.
Drop off the charts

17:40 Arrive base
Halt

Wednesday 17 Nov 1993
(5)

0630 On base. Begin setting
up equipment & clearing
supplies for the morning
hunting

Carl has safety meeting
for US, Whittles, &
Hiroshi

visited on Dallas
for Dean Cooper & Bob

Dallas 2 hand augers
1 1/2 ft outside fence.

1015 Started drilling again.

Move Equip. close due to rain

12:42 - 12:54 LUNCH

12:54 -

Drill

15:45 -

Release Drilling
crew.

16:47 -

Leave base Head to
Lab to chop off
Samples

5:05

Left Lab. Headed back
to Hotel

7

THURSDAY 18 November 1993

07:00 - Leave Hotel

07:14 -

On Base. Begin
setting up for hand
auger holes.

Drilled hand auger (11)
holes.

Completed sampling.

Inventoried and
packed all equipment.
Relieved area.
Completely clean.

Go to Lab to drop off
see chest of samples

14:15

Return to Hotel

Cool & Get Cleaned up.

15:15

Go to Library to get

16:30

Census data



FRIDAY

19 Nov 1993

(9)

~~Thursday~~

16:48 → 17:30

Walked back over to
the library to continue
our research on
population distributions

0800 - Check Soil Samples

0900 - Leave Hotel for
Roslyn ANGLB

1530 - Get a Rental Car Place
60 to LGA

1600 Get to LGA
Flight delayed 1.5 hrs

1110 (EST) Check in

Hotel. Got bumped

to Sat AM. to

SA

Carl was in line first & got a seat
on the 1120 flight. I was on
standby w/ slim chances of
boarding. Continental put me up
in a Holiday Inn

17:30 → 19:00 Sitom Tyomue
1 1/2 hr weather delay.

Arrive in Houston @ 22:15

Find out at airport

22:40 that flight has
been cancelled

Sat Nov 20 1993

(11)

07:47 Fly to SATX

08:48 Arrive in SATX

APPENDIX F
HRS DATA PACKAGE

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**PRELIMINARY ASSESSMENT (PA) SITE INSPECTION (SI)
DATA REQUIREMENTS FOR FEDERAL FACILITY DOCKET SITES**

Worcester ANG, Worcester, Massachusetts

1. **Supply copies of all sampling data, on-site and off-site, including location map, detection limits (see definitions below), raw data sheets, QA/QC documents, date(s) sampled, analytical method(s) used, well or boring logs, and sampling technique(s).**

The following information can be found in the listed sections of the report: sampling data: Appendix D; location map: Figure 2.1; detection limits: Section 5.0; raw data sheets: Appendix F; QA/QC: Appendix C; dates sampled: Appendix D; analytical method(s) used: Section 5.0; well or boring logs: Appendix A; and sampling techniques: Section 5.0.

2. **Locate and identify on a map all known or suspected sources (see definition below). Supply all information about source(s) such as: dates of operation, use, or spillage; amounts of material deposited, stored, or spilled; dimensions of source(s); known or suspected hazardous substances (see definition below), etc.**

This information can be found in Section 2 of the report.

3. **Provide a description of all aquifers beneath the site, including description of overlying materials, depth first encountered, thickness, and composition.**

This information can be found in Section 3.3, 3.4, 3.5 and 5.2.2.2 of the report

4. **For each source, choose one description from Table 1 that describes the groundwater contaminant. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.**

The best description from Table 1 is:

No evidence of hazardous migration from source area, a liner, and: (a) None of the following present: (1) maintained engineered cover, (2) functioning and maintained run-on control system and runoff management system, or (3) functioning leachate collection and removal system immediately above liner. For documentation see Section 5 in the report.

5. **Provide the location of all drinking water wells in all aquifers beneath the site in a 4-mile radius from the site (property boundary) by HRS distance ring and locate the wells within a one-mile radius on a 7.5-minute topographic map. Provide information on depth of well(s), screening interval(s), depth of aquifer(s) encountered, population served for multiple wells (i.e., municipal system), provide**

4the number of wells, location of all wells (regardless of 4-mile limit), average annual pumpage of each well (regardless of 4-mile limit), and total population served by system. Include information on all standby wells.

The only wells within a 4-mile radius from the site are Coal Mine Brook Well (located on Plantation Street close to North Lake Ave, East side of town near Lake Quinsigamond) and Home Farm Well (located in the town of Shrewsbury. This well is being evaluated for future use.) Both wells have been out of operation for more than 20 years. The City of Worcester relies on reservoirs for water. (Source: Department of Public Works)

- 6. Provide information and location (on 7.5-minute topographic map) of wells within 4 miles that are used to irrigate five or more acres of commercial food or forage crops, or watering of commercial livestock, or ingredient in commercial food preparation, or supply for aquaculture, or supply for a major or designated water recreation area, excluding drinking water use.**

None of the private wells are used for the above purposes, however, a list of wells along with the location of each has been provided. (Source: Department of Public Health and Code Enforcement)

- 7. Provide average number of persons per residence for county (or counties) that site is located in per the U.S. Census Bureau.**

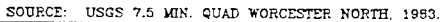
The average number of persons per residence for county is as follows: 1 person households: 61,640; 2 person households: 81,543; 3 person households: 46,688; 4 person households: 43,296; 5 person households: 18,834; 6 person households: 5,575; 7 or more person households: 2,382. (Source: Massachusetts Institute for Social and Economic Research: 1990 Census)

- 8. Identify and locate all surface water bodies within two miles of site, marking off the drainage routed (shown on 7.5-minute topographic map) from each source to applicable surface water bodies. Provide the average annual cubic feet per second flow for each surface water body within 15 miles downriver or radius from the point of probable entry into surface water. For lakes, provide information on inflow and outflow.**

The bodies of water that lie within two miles of the site are Green Hill Pond, Bell Pond and Coal Mine Brook which feeds into Lake Quinsigamond. Figure F shows the drainage route. The average annual cubic feet per second flow has not been calculated for Coal Mine Brook since it is intermittent. (Source: Public Works)

- 9. For each source, choose one description from Table 2 that describes the surface water containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.**

| NO. | ADDRESS | CAJ | NAME | PHONE | WELLS | DATA SAMP | DATE CONF |
|-----|------------------------|-----|------------------------------|----------|-------|-----------|-----------|
| 1 | 143 Southwest Cutoff | SMB | Consumer Auto Sales | 791-6601 | 1 | 02/16/89 | // |
| 2 | 479 SW Cutoff | SMB | Teleprime | 793-9730 | 1 | 02/09/89 | // |
| 3 | 442 SW Cutoff | SMB | Mack Sales & Service | 753-1403 | 1 | 01/05/88 | // |
| 4 | 422 SW Cutoff | SMB | M.J. Rudnick Inc. | 791-5561 | 1 | 02/09/89 | // |
| 5 | 19 SW Cutoff | SMB | Doug Russel Marine | 791-4917 | 1 | 01/30/89 | // |
| 6 | 379 SW Cutoff | SMB | Howard Glass | 753-8146 | 1 | 02/09/89 | // |
| 7 | 333 SW Cutoff | SMB | Miller Fence Co. | 753-8581 | 1 | 02/09/89 | // |
| 8 | 11 SW Cutoff | SMB | USA Marine | 791-7116 | 1 | 01/30/89 | // |
| 9 | 1 New Bond Street | LGB | Norton Co. | 795-5000 | 4 | // | 02/09/89 |
| 10 | Lincoln Street | LGB | State Mutual | | 1 | // | 01/24/89 |
| 11 | 200 Airport Drive | RES | William Ence | 757-2059 | 2 | 02/16/89 | // |
| 12 | 25 Bird Street | RES | Richard & Kathleen Belcufine | | 1 | // | 01/16/89 |
| 13 | 4 Brandt Lane | RES | Richard Brandt | 791-5194 | 1 | 02/10/89 | // |
| 14 | 2 Brandt Lane | RES | Ferris Salem | 755-6494 | 1 | 02/10/89 | // |
| 15 | 38 Joppa Road | RES | Dana Lewis | 791-5517 | 1 | // | 02/10/89 |
| 16 | 16 Hyatt Street | RES | Geraldine George | | 1 | 10/03/86 | // |
| 17 | 35 Strasberg Road | RES | Helen Garbauskas | 752-0103 | 1 | 12/29/88 | // |
| 18 | 97 Brigham road | RES | Thomas Courtney | | 1 | 02/10/88 | // |
| 19 | 116 Brigham Road | RES | Walter & Nina Pearson | 756-3898 | 1 | // | // |
| 20 | 123 Brigham Road | RES | Mary J. Mataka | | 1 | 02/10/88 | // |
| 21 | 126 Brigham Road | RES | Erato Noleshis | 755-0397 | 1 | 01/18/89 | // |
| 22 | 130 Brigham Road | RES | Jean Hopkins | 754-1549 | 1 | 01/18/89 | // |
| 23 | 131 Brigham Road | RES | Fredrick Borghesi | 753-3869 | 1 | 01/18/89 | // |
| 24 | 143 Brigham Road | RES | Gerald Evelyn Bissgnnette | 752-7003 | 1 | 01/18/89 | // |
| 25 | 60 Carter Road | RES | Joseph & Deborah Zawielski | 798-8638 | 1 | 12/28/88 | // |
| 26 | 65 Carter Road | RES | Donald & Maryann Shea | 798-3323 | 1 | // | 01/18/89 |
| 27 | 37 Brewer Street | RES | Earl & Patsy Brown | 754-5158 | 1 | 01/19/89 | // |
| 28 | 44 Brewer Street | RES | David & Judith Laliberte | 754-9152 | 1 | 01/19/89 | // |
| 29 | 48 Brewer Street | RES | Philip Hollyer | 757-2984 | 1 | 01/24/89 | // |
| 30 | 61 Brewer Street | RES | Richard Hill | | 1 | // | 01/24/89 |
| 31 | 84 Swan Avenue | RES | Edward & Carol Hodgerney | 755-0762 | 1 | 01/19/89 | // |
| 32 | 194 Swan Avenue | RES | Kevin & Cynthia Paguette | | 1 | // | 01/24/89 |
| 33 | 214 Swan Avenue | RES | Jon & Kathryn Frykberg | 755-0777 | 1 | 01/24/89 | // |
| 34 | 30 Passway #6 | RES | Gale Creamer | | 1 | 12/01/89 | // |
| 35 | 452 SW Cutoff (a) | RES | Anthony Kowszik | 554-5661 | 1 | 01/05/88 | // |
| 36 | 452 SW Cutoff (b) | RES | Anthony Koswzik Jr. | 799-6046 | 1 | 01/05/88 | // |
| 37 | 1254 West Boylston St. | RES | Pat & Mark Cappellucci | 853-4262 | 1 | 03/03/89 | // |
| 38 | 55 Millbrook Street | LGB | Worcester Cold Storage | 753-7513 | 1 | 03/24/89 | // |
| 39 | 100 Airport Drive | RES | Stephen Chiauroli | 752-0031 | 1 | 02/14/89 | // |
| 40 | 34 Barrows (Holden) | RES | Audrey Simes | 753-3793 | 1 | 03/01/89 | // |
| 41 | Charles Monahan | RES | 362 Salisbury Street | | 0 | 05/18/89 | // |
| 42 | Gerald Bergeron | RES | 665 Grove Street | | 1 | // | // |
| 43 | Worad | SMB | 299 Brooks Street | | 0 | 08/ /91 | // |



DRAINAGE

Worcester Air National Guard Station
Massachusetts Air National Guard
Worcester, Massachusetts

JULY 1994

The best description from Table 2 is as follows:

No evidence of hazardous substance migration from source areas and: (a) Neither of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system.

10. Provide the number of acres in each drainage basin.

The total number of acres in each drainage basin are as follows: 441 for Coal Mine Brook and 20.84 square meters for Lake Quinsigamond. Greenhill Pond and Bell Pond have not been identified as basins or subbasins, therefore, the number of acres has not been calculated. (Source: Public Works)

11. From Table 3, choose the predominant soil group (surface soil) which comprises the largest total area within each drainage area.

The predominant soil group is: medium-textured soils with moderate infiltration rates.

12. Provide the two-year, 24-hour rainfall.

The two year, 24-hour rainfall was 3.16" which occurred on September 27, 1993. (Source: Climatology Department at Worcester Airport)

13. From Table 4, choose the floodplain category of each source (supply FEMA floodplain map) and determine if each source meets the criteria from Table 5 (engineer's certification).

Since the site is located in a hill, the best floodplain description would be in the "none of the above" category (I.E., it will never flood.)(Source: Public Health and Code Enforcement Zoning Department)

14. Provide the location of all drinking water intakes within 15 downstream miles (rivers) or 15-mile radius (lakes, bays, etc.). Provide information on population served. For multiple intakes (i.e., municipal system), provide information on the number of intakes, location of all intakes (regardless of 15-mile limit), and total population served by system. Include information on all standby intakes.

There are no drinking water intakes within 15 miles downstream or 15-mile radius in a lake. (Source: Public Works)

15. Provide information and location of intakes within 15 miles downriver (radius in lake or bay) that are used to irrigate five or more acres of commercial food or forage crops, or watering of commercial livestock, or ingredient in commercial food preparation, or supply for aquaculture, or supply for a major or designated water recreation area, excluding drinking water use.

There are no intakes within 15 miles downriver or 15-mile radius that are used for the above purposes. (Source: Public Works)

16. **Provide any surface water body 15 miles downriver (radius in lakes or bay) used for drinking water.**

This question does not apply since surface water 15 miles downriver is not used for the above purposes. (Source: Public Works)

17. **Provide the average human food chain production (pounds per year) for each surface water body 15 miles downriver or 15-mile radius in lake.**

The average human food chain production has not been calculated for each surface water body 15 miles downriver. (Source: Public Works)

18. **Within a 4-mile radius from the site and 15 miles downriver, or radius in lake, identify all sensitive environments that exist. Provide original documentation (USF&W, Natural Heritage Database, State agencies, NOAA, etc.), multiple sensitive environments within a sensitive environment.**

No sensitive environments exist within a 4-mile radius from the site. (Source: U.S. Fish & Wildlife)

19. **What is the linear frontage of all wetlands 15 miles downriver or 15-mile radius in lake?**

This question does not apply since there are no rivers nearby or lakes with designated wetlands. (Source: U.S. Department of the Interior Fish and Wildlife Service Wetlands Map)

20. **Provide the location and number of persons residing, working, attending school, or day care within 200 feet. This includes both the Air and Army Guard.**

The total number of people working within 200 feet are 63. During Unit Training Assembly (UTA), the total is 433. (Source: RI Report)

21. **Identify all terrestrial sensitive environments that exist on-site. Provide original documentation (USF&W, Natural Heritage Database, State agencies, NOAA, etc.) and locate each on a 7.5-minute topographic map. Note that there could be multiple sensitive environments within a sensitive environment.**

No terrestrial sensitive environments exist on-site. (Source: U.S. Fish & Wildlife)

22. **For each source, choose one description from Table 8 that describes the accessibility to a human population. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.**

The best description is: Accessible, with no public recreation use.

23. Provide the total number of people in following distance rings from source(s)?

The approximate population for each ring is as follows:

- 0 - 1/4 mile = 150.5
- 1/4 - 1/2 mile = 1079.59
- 1/2 - 1 mile = 13,388.41
- 1 - 2 miles = 46,369.89
- 2 - 3 miles = 63,785.35
- 3 - 4 miles = 36,738.85

Use 1990 Census data and/or actual house counts. Document how calculated.

(Source: Department of Commerce, Economics and Statistics Administration Bureau of the Census 1990 CPH-3-341)

24. For each source, choose one description from Table 9 that describes the gaseous containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]), as to why the source meets that description and not any other in the Table. From Table 10, choose the appropriate description of each source type. For each source, choose one description from Table 11 that describes that particulate containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.

Table 9: None of the gas containment descriptions apply for this site.

Table 10: The source type is: Other types of sources, not elsewhere specified. (Vehicle and aerospace ground equipment maintenance shop.)

Table 11: None of the particulate containment descriptions apply.

25. Provide the location and area (in acres) of all wetlands within 4 miles of the site.

The approximate total area of wetlands is 278 acres. Wetlands consist mostly of Palustrine, scrub-shrub and emergent. As stated in question #19, these wetlands are not found along rivers or lakes. (Source: U.S. Department of the Interior Fish and Wildlife Service Wetlands Map)

26. Contact EPA Regional Office immediately if any radionuclides are present or suspected at site and supply all radiological information known to date.

This question does not apply since there are no radionuclides present or suspected near the site.

27. For all of the above information, use primary data source and supply two copies or specify where copies may be obtained.

28. Provide any removals or remedial actions taken place at site.

In 1993, as part of an Air National Guard program, all the underground storage tanks (UST) at the station were removed. A total of 11 UST ranging in capacity from 150 to 12,000 gallons were removed. See Section 2.2.3 and Figure 2.3 for more information.

29. If information relevant to a question already has been provided to the EPA, your answer may precisely cite the previous submittal by title, date, page, and paragraph number rather than resubmitting the information. To assist in your efforts, also enclosed is a copy of EPA's draft Preliminary Assessment Guidance.

Table 1

All Sources (Except Surface Impoundments, Land Treatment, Containers, and Tanks)

Evidence of hazardous substance migration from source area (i.e., source area includes source and any associated containment structures).

No liner.

No evidence of hazardous substance migration from source area, a liner, and:

- (a) None of the following present: (1) maintained engineered cover, (2) functioning and maintained run-on control system and runoff management system, or (3) functioning leachate collection and removal system immediately above liner.
- (b) Any one of the three items in (a) present.
- (c) Any two of the items in (a) present.
- (d) All three items in (a) present plus a functioning groundwater monitoring system.
- (e) All items in (d) present plus no bulk or non-containerized liquids nor materials containing free liquids deposited in source area.

No evidence of hazardous substance migration from source area, double liner with functioning leachate collection and removal system above and between liners, functioning groundwater monitoring system, and:

- (f) Only one of the following deficiencies present in containment: (1) bulk or noncontainerized liquids or materials containing free liquids deposited in source area, or (2) no or nonfunctioning or nonmaintained run-on control system and runoff management system, or (3) no or nonmaintained engineered cover.
- (g) None of the deficiencies in (f) present.

Source area inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate is generated, liquid or materials containing free liquids not deposited in source area, and functioning and maintained run-on control present.

Surface Impoundment

Evidence of hazardous substance migration from surface impoundment.

No liner.

Free liquids present with either no diking, unsound diking, or diking that is not regularly inspected and maintained.

No evidence of hazardous substance migration from surface impoundment, free liquids present, sound diking that is regularly inspected and maintained, adequate freeboard, and:

- (a) Liner.
- (b) Liner with functioning leachate collection and removal system below liner, and functioning groundwater monitoring system.
- (c) Double liner with functioning leachate collection and removal system between liners, and functioning groundwater monitoring system.

No evidence of hazardous substance migration from surface impoundment and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

Land Treatment

Evidence of hazardous substance migration from land treatment zone.

No functioning, maintained, run-on control and runoff management system.

No evidence of hazardous substance migration from land treatment zone and:

- (a) Functioning and maintained run-on control and runoff management system.
- (b) Functioning and maintained run-on control and runoff management system, and vegetative cover established over entire land treatment area.
- (c) Land treatment area maintained in compliance with 40 CFR 264.280.

Containers

All containers buried.

Evidence of hazardous substance migration from container area (i.e., container area includes containers and any associated containment structures).

No liner (or no essentially impervious base) under container area.

No diking (or no similar structure) surrounding container area.

Diking surrounding container area unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from container area, container area surrounded by sound diking that is regularly inspected and maintained, and:

- (a) Liner (or essentially impervious base) under container area.
- (b) Essentially impervious base under container area with liquids collection and removal system.
- (c) Containment system includes essentially impervious base, liquids collection system, sufficient contain 10 percent of volume of all containers, and functioning and maintained run-on control; plus functioning groundwater monitoring system, and spilled or leaked hazardous substances and accumulated precipitation removed in timely manner to prevent overflow of collection system, at least weekly inspection of containers, hazardous substances in leaking or deteriorating containers transferred to containers in good condition, and containers sealed except when waste is added or removed.
- (d) Free liquids present containment system has sufficient capacity to hold total volume of all containers and to provide adequate freeboard, single liner under container area with functioning leachate collection and removal system below liner, and functioning groundwater monitoring system.
- (e) Same as (d) except: double liner under container area with functioning leachate collection and removal system between liners.

Containers inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any unsealed or ruptured containers, liquids or materials containing free liquids not deposited in any container, and functioning and maintained runoff control present.

No evidence of hazardous substance migration from container area, containers leaking, and all free liquids eliminated at closure (either by removal of liquid or solidification of remaining wastes and waste residues).

Tank

Belowground tank.

Evidence of hazardous substance migration from tank area (i.e., tank area includes tank, ancillary equipment such as piping, and any associated containment structures).

Tank and ancillary equipment not provided with secondary containment, (e.g., liner under tank area, vault system, double wall).

No diking (or no similar structure) surrounding tank and ancillary equipment

Diking surrounding tank and ancillary equipment unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from tank area, tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained, and:

- (a) Tank and ancillary equipment provided with secondary containment.
- (b) Tank and ancillary equipment provided with secondary containment with leak detection and collection system.
- (c) Tank and ancillary equipment provided with secondary containment system that detects and collects spilled or leaked hazardous substances and accumulated precipitation and has sufficient capacity to contain 110 percent of volume of largest tank within containment area, spilled or leaked hazardous substances and accumulated precipitation removed in timely manner, at least weekly inspection of tank and secondary containment system, all leaking or unfit-for-use tank systems promptly responded to, and functioning groundwater monitoring system.
- (d) Containment system has sufficient capacity to hold volume of all tanks within tank containment area and to provide adequate freeboard, single liner under that containment area with functioning

leachate collection and removal system below liner, and functioning groundwater monitoring system.

- (e) Same as (d) except double liner under tank containment area with functioning leachate collection and removal system between liners.

Tank is aboveground, and inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any material released from tank, liquids or materials containing free liquids not deposited in any tank, and functioning and maintained run-on control present.

Table 2

All Sources (Except Surface Impoundments, Land Treatment, Containers, and Tanks)

Evidence of hazardous substance migration from source area (i.e., source area includes source and any associated containment structures).

No evidence of hazardous substance migration from source areas and:

- (a) Neither of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system.
- (b) Any one of the two items in (a) present.
- (c) Any two of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system, or (3) liner with functioning leachate collection and removal system immediately above liner.
- (d) All items in (c) present.
- (e) All items in (c) present, plus no bulk or non-containerized liquids nor materials containing free liquids deposited in source area.

No evidence of hazardous substance migration from source area, double liner with functioning leachate collection and removal system above and between liners, and:

- (f) Only one of the following deficiencies present in containment: (1) bulk or noncontainerized liquids or materials containing free liquids deposited in source area, or (2) no or nonfunctioning or nonmaintained run-on control system and runoff management system, or (3) no or nonmaintained engineered cover.
- (g) None of the deficiencies in (f) present.

Source area inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate is generated, liquids or materials containing free liquids not deposited in source area, and functioning and maintained run-on control present.

Surface Impoundment

Evidence of hazardous substance migration from surface impoundment.

Free liquids present with either no diking, unsound diking, or diking that is not regularly inspected and maintained.

No evidence of hazardous substance migration from surface impoundment, free liquids present, sound diking that is regularly inspected and maintained, adequate freeboard, and:

- (a) No liner.
- (b) Liner.
- (c) Liner with functioning leachate collection and removal system below liner.
- (d) Double liner with functioning leachate collection and removal system between liners.

No evidence of hazardous substance migration from surface impoundment and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

Land Treatment

Evidence of hazardous substance migration from land treatment zone.

No functioning and maintained run-on control and runoff management system.

No evidence of hazardous substance migration from land treatment zone and:

- (a) Functioning and maintained and maintained run-on control and runoff management system.
- (b) Functioning and maintained run-on control and runoff management system, and vegetative cover established over entire land treatment area.
- (c) Land treatment area maintained in compliance with 40 CFR 264.280.

Containers

All containers buried.

Evidence of hazardous substance migration from container area (i.e., container area includes containers and any associated containment structures).

No diking (or no similar structure) surrounding container area.

Diking surrounding container area unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from container area and container area surrounded by sound diking that is regularly inspected and maintained.

No evidence of hazardous substance migration from container area, container area surrounded by sound diking that is regularly inspected and maintained, and:

- (a) Essentially impervious base under container area with liquids collection and removal system.
- (b) Containment system includes essentially impervious base, liquids collection system, sufficient capacity to contain 10 percent of volume of all containers, and functioning and maintained run-on control; and spilled or leaked hazardous substances and accumulated precipitation removed in timely manner to prevent overflow of collection system, at least weekly inspection of containers, hazardous substances in leaking or deteriorating containers transferred to containers in good condition, and containers sealed except when waste is added or removed.
- (c) Free liquids present containment system has sufficient capacity to hold total volume of all containers and to provide adequate freeboard, and single liner under container area with functioning leachate collection and removal system below liner.
- (d) Same as (c) except: double liner under container area with functioning leachate collection and removal system between liners. Containers inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any unsealed or ruptured containers, liquids or materials containing free liquids not deposited in any container, and functioning and maintained run-on control present.

No evidence of hazardous substance migration from container area, containers leaking, and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

Tank

Belowground tank.

Evidence of hazardous substance migration from tank area (i.e., tank area includes tank, ancillary equipment such as piping, and any associated containment structures).

No diking (or no similar structure) surrounding tank and ancillary equipment.

Diking surrounding tank and ancillary equipment unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from tank area and tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained.

No evidence of hazardous substance migration from tank area, tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained, and:

- (a) Tank and ancillary equipment provided with secondary containment (e.g., liner under tank area, vault system, double wall) with leak detection and collection system.
- (b) Tank and ancillary equipment provided with secondary containment system that detects and collects spiked or leaked hazardous substances and accumulated precipitation and has sufficient capacity to contain 110 percent of volume of largest tank within containment area, spilled or leaked hazardous substances and accumulated precipitation removed in a timely manner, at least

- weekly inspection of tank and secondary containment system, and all leaking or unfit-for-use tank systems promptly responded to.
- (c) Containment system has sufficient capacity to hold total volume of all tanks within the tank containment area and to provide adequate freeboard, and single liner under tank containment area with functioning leachate collection and removal system below liner.
 - (d) Same as (c) except double liner under tank containment area with functioning leachate collection and removal system between liners.

Tank is aboveground, and inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any material released from tank, liquids or materials containing free liquids not deposited in any tank, and functioning and maintained run-on control present.

Table 3
Surface Soil Description

Coarse-textured soils with high infiltration rates (for example, sands, loamy sands).
 Medium-textured soils with moderate infiltration rates (for example, sandy loams, loams).
 Moderately fine-textured soils with low infiltration rates (for example, silty loams, silts, sandy clay loams).
 Fine-textured soils with very low infiltration rates (for example, clays, sandy clays, silty clay loams, clay loams, silty clays); or impermeable surfaces (for example, pavement).

Table 4
Floodplain Categories

Source floods annually.
 Source in 10-year floodplain.
 Source in 100-year floodplain.
 Source in 500-year floodplain.
 None of the above.

Table 5
Flood Containment

Documentation that containment at the source is designed, constructed, operated, and maintained to prevent a washout of hazardous substances by the flood being evaluated (see floodplain category).

Table 6
Sensitive Environments

Critical habitat^a for Federal designated endangered or threatened species.
 Marine Sanctuary.
 National Park.
 Designated Federal Wilderness Area.
 Areas identified under Coastal Zone Management Act^b.
 Sensitive areas identified under National Estuary Program^c or Near Coastal Waters Program^d.
 Critical areas identified under the Clean Lakes Program^e.
 National Monument^f.
 National Seashore Recreational Area.
 National Lakeshore Recreational Area.
 Habitat known to be used by Federal designated or proposed endangered or threatened species.
 National Preserve.

National or State Wildlife Refuge.
 Unit of Coastal Barrier Resources System.
 Coastal Barrier (undeveloped).
 Federal land designated for protection of natural ecosystems.
 Administratively Proposed Federal Wilderness Area.
 Spawning areas critical^e for the maintenance of fish/shellfish species within river, lake, or coastal tidal waters.
 Migratory pathways and feeding areas critical for maintenance of anadromous fish species within river reaches or areas in lakes or coastal tidal waters in which the fish spend extended periods of time.
 Terrestrial areas utilized for breeding by large or dense aggregations of animals^h.
 National river reach designated as Recreational.
 Habitat known to be used by State designated endangered or threatened species.
 Habitat known to be used by species under review as to its Federal endangered or threatened status.
 Coastal Barrier (partially developed).
 Federal designated Scenic or Wild River.
 State land designated for wildlife or game management.
 State designated Scenic or Wild River.
 State designated Natural Areas.
 Particular areas, relatively small in size, important to maintenance of unique biotic communities.
 State designated areas for protection or maintenance of aquatic life^j.

^aCritical habitat as defined in 50 CFR 424.02.

^bAreas identified in State Coastal Zone Management plans as requiring protection because of ecological value.

^cNational Estuary Program study areas (Subareas within subareas) identified in Comprehensive Conservation and Management Plans as requiring protection because they support critical life stages of key estuarine species (Section 320 of Clean Water Act, as amended).

^dNear Coastal Waters as defined in Sections 104(b)(3), 304(1), 319, and 320 of Clean Water Act, as amended.

^eClean Lakes Program critical areas (subareas within lakes, or in some cases entire small lakes) identified by State Clean Lake Plans as critical habitats (Section 314 of Clean Water Act, as amended).

^fUse only for air migration pathway.

^gLimit to areas described as being used for intense or concentrated spawning by a given species.

^hFor the air migration pathway, limit to terrestrial vertebrate species. For the surface water migration pathway, limit to terrestrial vertebrate species aquatic or semiaquatic foraging habits.

^jAreas designated under Section 305(a) of Clean Water Act, as amended.

Table 7
 Terrestrial Sensitive Environments

Terrestrial critical habitat^a for Federal designated endangered or threatened species.
 National Park.
 Designated Federal Wilderness Area.
 National Monument.
 Terrestrial habitat known to be used by Federal designated or proposed threatened or endangered species.
 National Preserve (terrestrial).
 National or State Terrestrial Wildlife Refuge.
 Federal land designated for protection of natural ecosystems.
 Administratively proposed Federal Wilderness Area.
 Terrestrial areas utilized for breeding by large or dense aggregations of animals^b.
 Terrestrial habitat known to be used by State designated endangered or threatened species.
 Terrestrial habitat known to be used by species under review as to its Federal designated endangered or threatened status.
 State lands designated for wildlife or game management.
 State designated Natural Areas.
 Particular area, relatively small in size, important to maintenance of unique biotic communities.

^aCritical habitat as defined in 50 CFR 42.

^bLimit to vertebrate species.

Table 8
Area of Observed Contamination

Designated recreational area.
Regularly used for public recreation (for example, fishing, hiking, softball).
Accessible and unique recreational area (for example, vacant lots in urban area).
Moderately accessible (may have some access improvements – for example, gravel road), with some public recreation use.
Slightly accessible (for example, extremely rural area with no road improvement), with some public recreation use.
Accessible, with no public recreation use.
Surrounded by maintained fence or combination of maintained fence and natural barriers.
Physically inaccessible to public, with no evidence of public recreation use.

Table 9
Gas Containment Description

All situations except those specifically listed below.
Evidence of biogas release.
Active fire within source.
Gas collection/treatment system functioning, regularly inspected, maintained, and completely covering source.
Source substantially surrounded by engineering windbreak and no other containment specifically described in this table applies.
Source covered with essentially impermeable, regularly inspected, maintained cover.
Uncontaminated soil cover > 3 feet:
 Source substantially vegetated with little exposed soil.
 Source lightly vegetated with much exposed soil.
 Source substantially devoid of vegetation.
Uncontaminated soil cover ≥ 1 foot and ≤ 3 feet:
 Source heavily vegetated with essentially no exposed soil.
 Cover soil resistant to gas migration^a.
 Cover soil type not resistant to gas migration^a or unknown.
 Source substantially vegetated with little exposed soil and cover soil type resistant to gas migration^a.
 Other.
Uncontaminated soil cover < 1 foot:
 Source heavily vegetated with essentially no exposed soil and cover soil type resistant to gas migration^a.
 Other.
Totally or partially enclosed within structurally intact building and no other containment specifically described in this table applies.
Source consists solely of intact, sealed containers:
 Totally protected from weather by regularly inspected, maintained cover.
 Other.

^aConsider moist fine-grained and saturated coarse-grained soils resistant to gas migration; consider all other soils nonresistant.

Table 10
Source Type

Active fire area.
Burn pit.
Containers or tanks (buried/belowground):
 Evidence of biogas release.
 No evidence of biogas release.

Containers or tanks, not elsewhere specified.
Contaminated soil (excluding land treatment).
Landfarm/land treatment.
Landfill:

Evidence of biogas release.
No evidence of biogas release.

Pile:

Tailings pile.
Scrap metal or junk pile.
Trash pile.
Chemical waste pile.
Other waste piles.

Surface impoundments (buried/backfilled):

Evidence of biogas release.
No evidence of biogas release.

Surface impoundment (not buried/backfilled):

Dry.
Other.

Other types of sources, not elsewhere specified.

Table 11
Particulate Containment Description

All situations except those specifically listed below.

Source contains only particulate hazardous substances totally covered by liquids.

Source substantially surrounded by engineered windbreak and no other containment specifically described in this table applies.

Source covered with essentially impermeable, regularly inspected, maintained cover.

Uncontaminated soil cover >3 feet:

Source substantially vegetated with little or no exposed soil.
Source lightly vegetated with much exposed soil.
Source substantially devoid of vegetation.

Uncontaminated soil cover ≥ 1 foot and ≤ 3 feet:

Source heavily vegetated with essentially no exposed soil:
Cover soil type resistant to gas migration^a.
Cover soil type not resistant to gas migration^a.
Source substantially vegetated with little exposed soil and cover soil type resistant to gas migration^a.
Other.

Uncontaminated soil cover <1 foot:

Source heavily vegetated with essentially no exposed soil and cover soil type resistant to gas migration^a.
Other.

Totally or partially enclosed within structurally intact building and no other containment specifically described in this table applies.

Source consists solely of containers:

All containers contain only liquids.
All containers intact, sealed, and totally protected from weather by regularly inspected, maintained cover.
All containers intact and sealed.
Other.

^aConsider moist fine-grained and saturated coarse-grained soils resistant to gas migration; consider all other soils nonresistant.

APPENDIX G

**COMMONWEALTH OF MASSACHUSETTS
APPLICABLE OR RELEVANT AND APPROPRIATE
REQUIREMENTS**

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APPENDIX G

COMMONWEALTH OF MASSACHUSETTS APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

Subpart C of the Massachusetts Contingency Plan (MCP) (40.0300) establishes the guidelines to follow for the notification of releases and threats of releases of oil and hazardous materials in the State. When a release of oil/hazardous materials takes place, the MADEP should be notified within two hours, 72 hours, or 120 days, according to the nature of the release.

Releases which require notification within 120 days are described in 310 CMR 40.0315, and have to meet one or more of the following criteria:

1. A release to the environment indicated by the measurement of one or more hazardous materials in soil or groundwater in an amount equal to or greater than the applicable Reportable Concentration described in 310 CMR 40.0360 through 40.0369 and listed at 40.1600;
2. A release to the environment indicated by the measurement of oil in soil in an amount equal to or greater than the applicable Reportable Concentration described in 310 CMR 40.0360 through 40.0369 and listed at 40.1600, where the total contiguous volume of the oil contaminated soil is equal to or greater than two cubic yards; or
3. A release to the environment indicated by the measurement of oil in groundwater in an amount equal to or greater than the applicable Reportable Concentration described in 310 CMR 40.0360 through 40.0369 and listed at 40.01600.

Releases which require notification within two and 72 hours are described in 310 CMR 10.03(12) and (13). These requirements do not apply to the 212 EIS, Worcester ANG, based on the nature of the contaminants and the environmental conditions of the site. Therefore, soil Reportable Concentrations listed in 310 CMR (40.1600) were used as the guidelines to be followed for maximum contaminant levels for this SI.

For the purpose of soil categorization, the potential for exposure is described by a qualitative analysis of the accessibility of the soil in combination with the information about the site activities and uses. Soils are classified as either category S-1, S-2, or S-3 according to 310

CMR 40.0933. These categories were used in conjunction with 310 CMR 40.1600 to establish the Reportable Concentrations of chemicals in the soil.

According to 310 CMR 40.0933(5), category S-1, soil shall be classified as category S-1 if either:

1. The soil of concern is accessible, pursuant to 310 CMR 40.0933(4)(c)1, and either:
 - a. The soil is currently used for growing fruits or vegetables for human consumption, or if it is reasonably foreseeable that the soil may be put to such use; or
 - b. A child's frequency or intensity of use is considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c); or
 - c. An adult's frequency and intensity of use are both considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c); or
2. The soil is potentially accessible, pursuant to 310 CMR 40.0922(4)(c)2, and a child's frequency and intensity of use are both considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c).

According to 310 CMR 40.0933(4)(c), accessibility of the soil to potential receptors shall be characterized as either "accessible," "potentially accessible," or "isolated" using the following criteria:

1. Soil shall be characterized as "accessible" if it is located less than 3 feet below the surface, and the surface is not completely covered by pavement. For buildings having earthen floors, the floor shall be considered as the soil surface.
2. Soil shall be characterized as "potentially accessible" if it is located at a depth of 3 to 15 feet below the surface (with or without pavement), or if the soil is located less than 3 feet from the surface in an area completely paved.
3. Soil shall be characterized as "isolated" if it is located at a depth greater than 15 feet below the surface, or if the soil is covered completely by a building or other

permanent structure which does not have earthen floors, regardless of depth. Soil located at a depth greater than 3 feet below the earthen floor of a building or other permanent structure shall also be characterized as "isolated."

According to 310 CMR 40.0933(4)(a), frequency of use shall indicate how often a receptor makes use of, or has access to, the disposal site and the surrounding environment. Frequency of use shall be described as either "High," "Low" or "Not Present," using the following criteria:

1. Children's frequency of use shall be characterized as high if:
 - a. Any children reside, attend school or attend day care at the disposal site or in the surrounding environment; or
 - b. Large numbers of children visit the disposal site or the surrounding environment, regardless of any one child's frequency of visitation.
2. Adults' frequency of use shall be characterized as high when they reside at the disposal site or in the surrounding environment, or when they work at the disposal site or in the surrounding environment on a continuing basis (i.e., full days or shifts of eight or more hours per day on a continuing basis).
3. Children's or adults' frequency of use shall be characterized as low when they are present at the disposal site, but only as infrequent visitors; or when workers are present at the disposal site for only short periods of time (i.e., less than two hours per day on a continuing basis, or for full days or shifts on a sporadic basis).
4. It shall be presumed that children may be present at the disposal site or in the surrounding environment unless it can be demonstrated that access by children age 15 and younger is specifically restricted or that such children are highly unlikely to be present, in which case children may be considered to be "Not Present." Disposal sites which are residential properties shall presume the presence of children unless there is clear and convincing evidence to the contrary.
5. The frequency of use for activities not described above shall be characterized in the documentation of the Risk Characterization as either high or low.

According to 310 CMR 40.0933(4)(b), intensity of use shall describe the nature of the site activities and uses which could potentially result in exposure to the receptor. Intensity of use shall be described as either "High" or "Low," using the following criteria:

1. Site activities and uses which have the potential to disturb soil and thus result in either direct contact with the soil itself or inhalation of soil derived dust shall be characterized as "High" intensity use. Examples of such activities include, without limitation, gardening, digging, and recreational sports.
2. Passive activities which do not disturb the soil, such as walking, shopping, and bird-watching shall be characterized as "Low" intensity use.
3. The intensity of use for each identified site activity and use shall be characterized in the documentation of the Risk Characterization as either high or low with appropriate justification.

According to 310 CMR 40.093(6), soil shall be classified as category S-2 if either:

1. The soil is accessible, pursuant to 310 CMR 40.0933(4)(c)1, and:
 - a. A child's frequency and intensity of use are both considered to be low pursuant to 310 CMR 40.0933(4)(b) and (c); or
 - b. Children are not present at the disposal site and either (but not both) the adults' frequency or intensity of use is considered to be high, pursuant to 310 CMR 40.0933(4)(b) and (c); or
2. The soil is potentially accessible, pursuant to 310 CMR 40.0933(4)(c)2, and:
 - a. Either (but not both) a child's frequency or intensity of use is considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c); or
 - b. Children are not present at the disposal site and an adult's frequency and intensity of use are both considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c).

The environmental conditions at the site can be described as follows:

The "accessibility" to the site can be categorized as "accessible," due to the fact the soil is located less than 3 feet below the surface, and the surface is not completely covered by pavement. The "frequency of use" of the site can be categorized as high, because people work at the site or in the surrounding environment on a continuing basis. "Intensity of use" at the site can be categorized as low, because passive activities which do not disturb the soil, such as walking, are performed at the site. Therefore, the soil at the site will be categorized as S-2 for the purpose of this investigation.

Soils at the Station have been classified as category S-2 according to 310 CMR 40.0933(6)(a), which establishes that: soils shall be classified as category S-2 if children are not present at the disposal site and either (but not both) the adults' frequency or intensity of use is considered to be high, pursuant to 310 CMR 40.0933(4)(b) and (c).

Table 3 of 310 CMR 40.0975(6)(b) establishes reportable concentrations for contaminants in soil based on both soil category S-2 standards and a groundwater classification. For the purpose of this investigation, groundwater at the Station has been classified as GW-1. A groundwater investigation was not within the scope of this SI; therefore, GW-1 was used because it provided the most stringent reportable cleanup standards.

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APPENDIX H

INVESTIGATION DERIVED WASTE DISPOSITION

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INVESTIGATION DERIVED WASTE DISPOSITION

During the SI, a certain amount of waste material (drill cuttings and decontamination water) were produced as a result of investigation activities. Soil cuttings from each drilling location and all decontamination water were drummed in steel, plastic-lined 55-gallon DOT Drums. A total of eight drums were produced, six containing soil cuttings and two containing decontamination water. There were no miscellaneous derived wastes (PPE and visqueen sheeting) which came in contact with soils having PID readings in excess of 100 ppm; therefore, all PPE was discarded in the general refuse container after the conclusion of field work. All drums were properly marked to indicate their contents, the collection date, contractor's name and phone number, and borehole ID numbers, with the exception of two incorrectly marked drums. Guidance for the final disposition of drummed materials is provided in this appendix.

Drums Containing Soil

A total of six drums containing soil cuttings were produced during the SI. Soil cuttings from the two background boreholes were combined together since they were drilled to 2 feet BLS and were not anticipated to be contaminated. The shallow boreholes north of the fence line did not produce cuttings due to the shallow nature of the bedrock. Table H.1 lists the drilling locations for which drums have been marked "Soil," the recommended disposition of those drums, and the rationale for each recommendation.

Table H.1
Recommended Disposition of Soil Drums
101st ACS, Worcester ANG, Worcester, Massachusetts

| Drilling Location ID Number | Recommended Disposition | Rationale |
|---------------------------------------|--|---|
| 01-001BH and 01-012BH ^a | Soil should be disposed through DRMO. | Arsenic was detected at concentrations above Reportable Concentrations. |
| 01-002BH ^b | Soil should be disposed through DRMO. | TPH was detected at concentrations above Reportable Concentrations. |
| 01-003BH | Soil should be disposed through DRMO. | VOCs and metals were detected at concentrations above Reportable Concentrations. |
| 01-004BH | Soil should be disposed through DRMO. | Arsenic was detected at a concentration above Reportable Concentrations. |
| 01-005BH | Soil should be disposed through DRMO. | VOCs and metals were detected at concentrations above Reportable Concentrations. |

| Drilling Location ID Number | Recommended Disposition | Rationale |
|--------------------------------|---------------------------------------|---|
| 01-006BH | Soil should be disposed through DRMO. | Metals were detected at concentrations above Reportable Concentrations. |

^aDrum incorrectly labeled. Drum contains cuttings from borehole 01-001BH and 01-002BH.

^bDrum incorrectly labeled. Drum contains cuttings from borehole 01-012BH.

DRMO – Defense Reutilization and Marketing Office.

TPH – Total Petroleum Hydrocarbons.

VOCs – Volatile Organic Compounds.

The drum labeled "01-001BH and 01-012BH" was incorrectly labeled. That drum contains the cuttings from 01-001BH and 01-002BH, while the drum labeled "01-002BH" contains cuttings from 01-012BH.

Drums Containing Non-Potable Water

Decontamination water was drummed separately. Table H.2 lists the two drums marked "Decontamination Water," the recommended disposition of those drums, and the rationale for each recommendation.

Table H.2
Recommended Disposition of Non-Potable Water Drums
101st ACS, Worcester ANG, Worcester, Massachusetts

| Monitoring Well ID Number | Recommended Disposition | Rationale |
|------------------------------|--|--|
| Decontamination Water | Water should be analyzed for SVOCs, metals, and TPH. | SVOCs, metals and TPH were detected above Reportable Concentrations. |
| Decontamination Water | Water should be analyzed for SVOCs, metals, and TPH. | SVOCs, metals and TPH were detected above Reportable Concentrations. |

TPH – Total Petroleum Hydrocarbons.

SVOCs – Semivolatile Organic Compounds.